# ANNEX 3

# Section 1

# CODIFICATION OF HAZARD STATEMENTS

**A3.1.1 Introduction**

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

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

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

**A3.1.2 Codification of hazard statements**

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

(a) the letter "H" (for "hazard statement");

(b) a number designating the type of hazard to which the hazard statement is assigned according to the numbering of the different parts of the GHS, as follows:

- "2" for physical hazards;
- "3" for health hazards;
- "4" for environmental hazards;

(c) two numbers corresponding to the sequential numbering of hazards arising from the intrinsic properties of the substance or mixture, such as explosivity (codes from 200 to 210), flammability (codes from 220 to 230), etc.

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

Column (1) The hazard statement code;

Column (2) The hazard statement text;

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

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

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

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

A3.1.2.3 In addition to individual hazard statements, a number of combined hazard statements are given in table A3.1.2. The alphanumerical codes for the combined statements are constructed from the codes for the individual statements that are combined, conjoined with the plus ("+") sign. For example, H300 + H310 + H330 indicates that the text to appear on the label is "**Fatal if swallowed, in contact with skin or if inhaled**".

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 permitted for two or more hazard statements (see A3.1.2.5), 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.

A3.1.2.5 In addition to the combinations found in table A3.1.2, it is also permitted to combine more than one health hazard statement of equivalent severity if, for example, there is insufficient space on the label. When hazard statements are combined, all hazards must be clearly conveyed and only the repetitive text may be deleted. Statements can be combined by using the word "and", additional punctuation, and changing the case of the initial letter of the word at the beginning of a statement. For example, H317 "**May cause an allergic skin reaction**" + H340 "**May cause genetic defects**" + H350 "**May cause cancer**" may all be combined because they are all for Category 1 health hazards (i.e. health hazard statements of equivalent severity) and have repetitive elements of the hazard statement (i.e. the statements begin with "may cause"). These statements may be combined to "**May cause an allergic skin reaction, genetic defects, and cancer**". The competent authority may limit the types of combinations permitted to ensure comprehensibility (e.g. limit the number of hazard statements that can be combined).

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

| Code<br><br>(1) | Physical hazard statements<br><br>(2) | Hazard class (GHS chapter)<br><br>(3) | Hazard category<br><br>(4) |
|---|---|---|---|
| H200 | *[Deleted]* | | |
| H201 | *[Deleted]* | | |
| H202 | *[Deleted]* | | |
| H203 | *[Deleted]* | | |
| H204 | **Fire or projection hazard** | Explosives (chapter 2.1) | 2B, 2C |
| H205 | *[Deleted]* | | |
| H206 | **Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced** | Desensitized explosives (chapter 2.17) | 1 |
| H207 | **Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced** | Desensitized explosives (chapter 2.17) | 2, 3 |
| H208 | **Fire hazard; increased risk of explosion if desensitizing agent is reduced** | Desensitized explosives (chapter 2.17) | 4 |
| H209 | **Explosive** | Explosives (chapter 2.1) | 1, 2A |
| H210 | **Very sensitive** | Explosives (chapter 2.1) | 1 |
| H211 | **May be sensitive** | Explosives (chapter 2.1) | 1 |
| | | | |
| H220 | **Extremely flammable gas** | Flammable gases (chapter 2.2) | 1A |
| H221 | **Flammable gas** | Flammable gases (chapter 2.2) | 1B, 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 |

**Table A3.1.1: Hazard statement codes for physical hazards *(cont'd)***

| Code<br><br>(1) | Physical hazard statements<br><br>(2) | Hazard class (GHS chapter)<br><br>(3) | Hazard category<br><br>(4) |
|---|---|---|---|
| H230 | **May react explosively even in the absence of air** | Flammable gases (chapter 2.2) | 1A, chemically unstable gas A |
| H231 | **May react explosively even in the absence of air at elevated pressure and/or temperature** | Flammable gases (chapter 2.2) | 1A, chemically unstable gas B |
| H232 | **May ignite spontaneously if exposed to air** | Flammable gases (chapter 2.2) | 1A, pyrophoric gas |
| | | | |
| 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 |
| | | | |
| 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<br>Liquefied gas<br>Dissolved gas |
| H281 | **Contains refrigerated gas; may cause cryogenic burns or injury** | Gases under pressure (chapter 2.5) | Refrigerated liquefied gas |
| H282 | **Extremely flammable chemical under pressure: May explode if heated** | Chemicals under pressure (chapter 2.3) | 1 |
| H283 | **Flammable chemical under pressure: May explode if heated** | Chemicals under pressure (chapter 2.3) | 2 |
| H284 | **Chemical under pressure: May explode if heated** | Chemicals under pressure (chapter 2.3) | 3 |
| | | | |
| H290 | **May be corrosive to metals** | Corrosive to metals (chapter 2.16) | 1 |

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

| Code<br><br>(1) | Health hazard statements<br><br>(2) | Hazard class (GHS chapter)<br><br>(3) | Hazard category<br>(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 |
| | | | |
| 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) | 1, 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** | Skin sensitization (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) | 2/2A |
| H320 | **Causes eye irritation** | Serious eye damage/eye irritation (chapter 3.3) | 2B |
| | | | |
| H330 | **Fatal if inhaled** | Acute toxicity, inhalation (chapter 3.1) | 1, 2 |
| H331 | **Toxic if inhaled** | Acute toxicity, inhalation (chapter 3.1) | 3 |
| H332 | **Harmful if inhaled** | Acute toxicity, inhalation (chapter 3.1) | 4 |
| H333 | **May be harmful if inhaled** | Acute toxicity, inhalation (chapter 3.1) | 5 |
| H334 | **May cause allergy or asthma symptoms or breathing difficulties if inhaled** | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B |
| H335 | **May cause respiratory irritation** | Specific target organ toxicity, single exposure; Respiratory tract irritation (chapter 3.8); | 3 |
| H336 | **May cause drowsiness or dizziness** | Specific target organ toxicity, single exposure; Narcotic effects (chapter 3.8) | 3 |
| | | | |
| H340 | **May cause genetic defects** (*state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Germ cell mutagenicity (chapter 3.5) | 1, 1A, 1B |
| H341 | **Suspected of causing genetic defects** *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Germ cell mutagenicity (chapter 3.5) | 2 |

**Table A3.1.2: Hazard statement codes for health hazards *(cont'd)***

| Code<br><br>(1) | Health hazard statements<br><br>(2) | Hazard class (GHS chapter)<br><br>(3) | Hazard category<br><br>(4) |
|---|---|---|---|
| H350 | **May cause cancer** *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Carcinogenicity (chapter 3.6) | 1, 1A, 1B |
| H351 | **Suspected of causing cancer** *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Carcinogenicity (chapter 3.6) | 2 |
| | | | |
| H360 | **May damage fertility or the unborn child** *(state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Reproductive toxicity (chapter 3.7) | 1, 1A, 1B |
| H361 | **Suspected of damaging fertility or the unborn child** *(state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Reproductive toxicity (chapter 3.7) | 2 |
| H362 | **May cause harm to breast-fed children** | Reproductive toxicity, effects on or via lactation (chapter 3.7) | Additional category |
| | | | |
| H370 | **Causes damage to organs** *(or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Specific target organ toxicity, single exposure (chapter 3.8) | 1 |
| H371 | **May cause damage to organs** *(or state all organs affected, if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Specific target organ toxicity, single exposure (chapter 3.8) | 2 |
| H372 | **Causes damage to organs** *(state all organs affected, if known)* **through prolonged or repeated exposure** *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Specific target organ toxicity, repeated exposure (chapter 3.9) | 1 |
| H373 | **May cause damage to organs** *(state all organs affected, if known)* **through prolonged or repeated exposure** *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | Specific target organ toxicity, repeated exposure (chapter 3.9) | 2 |
| | | | |
| 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 |

**Table A3.1.2: Hazard statement codes for health hazards *(cont'd)***

| Code<br><br>(1) | Health hazard statements<br><br>(2) | Hazard class (GHS chapter)<br><br>(3) | Hazard category<br><br>(4) |
|---|---|---|---|
| H301 + H311 | **Toxic if swallowed or in contact with skin** | Acute toxicity, oral (chapter 3.1) and acute toxicity, dermal (chapter 3.1) | 3 |
| H301 + H331 | **Toxic if swallowed or if inhaled** | Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 3 |
| H311 + H331 | **Toxic in contact with skin or if inhaled** | Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 3 |
| H301 + H311 + H331 | **Toxic if swallowed, in contact with skin or if inhaled** | Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 3 |
| | | | |
| H302 + H312 | **Harmful if swallowed or in contact with skin** | Acute toxicity, oral (chapter 3.1) and acute toxicity, dermal (chapter 3.1) | 4 |
| H302 + H332 | **Harmful if swallowed or if inhaled** | Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 4 |
| H312 + H332 | **Harmful in contact with skin or if inhaled** | Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 4 |
| H302 + H312 + H332 | **Harmful if swallowed, in contact with skin or if inhaled** | Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 4 |
| | | | |
| H303 + H313 | **May be harmful if swallowed or in contact with skin** | Acute toxicity, oral (chapter 3.1) and acute toxicity, dermal (chapter 3.1) | 5 |
| H303 + H333 | **May be harmful if swallowed or if inhaled** | Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 5 |
| H313 + H333 | **May be harmful in contact with skin or if inhaled** | Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 5 |
| H303 + H313 + H333 | **May be harmful if swallowed, in contact with skin or if inhaled** | Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 5 |
| | | | |
| H315 + H319 | **Causes skin irritation and serious eye irritation** [a] | Skin corrosion/irritation (chapter 3.2) and serious eye damage/eye irritation (chapter 3.3) | 2 (skin) + 2/2A (eye) |
| H315 + H320 | **Causes skin and eye irritation** [a] | Skin corrosion/irritation (chapter 3.2) and serious eye damage/eye irritation (chapter 3.3) | 2 (skin) + 2B (eye) |

[a] *Competent authorities may select the applicable hazard statement(s) depending on the serious eye damage/eye irritation hazard categories implemented in their jurisdiction (2/2A or 2A/2B).*

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

| Code<br><br>(1) | Environmental hazard statements<br><br>(2) | Hazard class (GHS chapter)<br><br>(3) | Hazard category<br>(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 |
| | | | |
| H410 | **Very toxic to aquatic life with long lasting effects** | Hazardous to the aquatic environment, long-term hazard (chapter 4.1) | 1 |
| H411 | **Toxic to aquatic life with long lasting effects** | Hazardous to the aquatic environment, long-term hazard (chapter 4.1) | 2 |
| H412 | **Harmful to aquatic life with long lasting effects** | Hazardous to the aquatic environment, long-term hazard (chapter 4.1) | 3 |
| H413 | **May cause long lasting harmful effects to aquatic life** | Hazardous to the aquatic environment, long-term hazard (chapter 4.1) | 4 |
| | | | |
| H420 | **Harms public health and the environment by destroying ozone in the upper atmosphere** | Hazardous to the ozone layer (chapter 4.2) | 1 |
| H421 | **Harms public health and the environment by contributing to global warming** | Hazardous by contributing to global warming (chapter 4.2) | 1 |

# ANNEX 3

# Section 2

# CODIFICATION AND USE 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 its 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**.

A3.2.1.3 This section provides guidance on the selection and use of precautionary statements for each GHS hazard class and category. It will be subject to further refinement and development over time though the overall approach set out below will remain.

A3.2.1.4 Precautionary statements should, as an important part of hazard communication, appear on GHS labels, generally along with the GHS hazard communication elements (pictograms, signal words and hazard statements). Additional supplemental information, such as directions for use, may also be provided at the discretion of the manufacturer/supplier and/or competent authority (see chapter 1.2 and chapter 1.4, paragraph 1.4.6.3). For some specific chemicals, supplementary first aid, treatment measures or specific antidotes or cleansing materials may be required. Poisons Centres and/or medical practitioners or specialist advice should be sought in such situations and included on labels.

A3.2.1.5 The starting point for assigning precautionary statements is the hazard classification of the substance or mixture. The system of classifying hazards in the GHS is based on the intrinsic properties of the substances or mixtures involved (see 1.3.2.2.1). In some systems, however, labelling may not be required for chronic hazards on consumer product 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).

A3.2.1.6 The guidance for assigning the statements in this section has been developed to provide the essential minimum precautionary statements that are linked to relevant GHS hazard classification criteria and type of hazard.

A3.2.1.7 Precautionary statements from existing classification systems were 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.

A3.2.1.8 The understanding and following of precautionary label information, specific safety guidelines, and the safety data sheet for each substance or mixture before use are part of occupational health and safety procedures. Consistent use of precautionary statements will reinforce safe handling procedures and will enable the key concepts and approaches to be emphasized in workplace training and education activities.

A3.2.1.9 In order to correctly implement precautionary measures concerning prevention, response, storage and disposal, it is also necessary to have information on the composition of the substance or mixture 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.

A3.2.1.10 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.

### A3.2.2 Codification of precautionary statements

A3.2.2.1 Precautionary statements are assigned a unique alphanumerical code which consists of one letter and three numbers as follows:

(a) a letter "P" (for "precautionary statement")

(b) one number designating the type of precautionary statement as follows:

- "1" for general precautionary statements;
- "2" for prevention precautionary statements;
- "3" for response precautionary statements;
- "4" for storage precautionary statements;
- "5" for disposal precautionary statements;

(c) two numbers (corresponding to the sequential numbering of precautionary statements)

A3.2.2.2 The precautionary statement codes are intended to be used for reference purposes. They are not part of the precautionary statement text and should not be used to replace it.

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

A3.2.2.4 Where square brackets […] appear around a precautionary statement code, this indicates the precautionary statement 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) of the tables.

### A3.2.3 Structure of the precautionary statement tables

A3.2.3.1 Each precautionary statement 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;

### A3.2.4 Use of precautionary statements

A3.2.4.1 Tables A3.2.1 to A3.2.5 show the **core part of the precautionary statements in bold print**. This is the text, except as otherwise specified, that should appear on the label. Derogations from the recommended labelling statements are at the discretion of competent authorities (see A3.2.5).

A3.2.4.2 When a forward slash or diagonal mark "/" appears in a precautionary statement text, 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 one or more appropriate phrase(s). For example P280 "**Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/…**" could read "**wear eye protection**" or "**wear eye and face protection**".

A3.2.4.3 When three full stops "**…**" appears in a precautionary statement text, 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) of the tables. In such cases the manufacturer or supplier can choose, or the competent authorities may prescribe the other conditions to be specified.

A3.2.4.4 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) of the tables. For example, P264 states: "**Wash hands [and ...] thoroughly after handling**.". This statement is given with the condition for use: "*- text in square brackets to be used when the manufacturer/supplier or the competent authority specify other parts of the body to be washed after handling*.".The application of the condition for use should be interpreted as follows: If additional information is provided explaining what other part(s) of the body is to be washed following handling, then the text in brackets is to be used followed by the name of the relevant body part(s). However, if other part(s) of the body do not need to be specified, the text in square brackets should not be used, and the precautionary statement should read: "**Wash hands thoroughly after handling**.".

A3.2.4.5 In cases where additional information is required, or information either has to be or may be specified, this is indicated by a relevant entry in column (5) in plain text.

A3.2.4.6 When *text in italics* is used in the tables, 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, P241 "**Use explosion-proof [electrical/ventilating/lighting/...] equipment**", only applies for flammable solids "*if dust clouds can occur*". *Text in italics* that starts with "– *if*" or "– *specify*" is an explanatory conditional note for the application of the precautionary statements and is not intended to appear on the label.

A3.2.4.7 Where precautionary statements become obsolete, 'deleted' is inserted under the existing code in column 1 of the tables in this section to avoid potential confusion between codes used in different editions of the GHS.

### A3.2.5 Flexibility in the use of precautionary statements

#### A3.2.5.1 *Omission of precautionary statements where the advice is not relevant*

A3.2.5.1.1 Subject to any requirements of competent authorities, those responsible for labelling may decide to omit other precautionary statements for a hazard class and category where the information is clearly not appropriate or is adequately addressed by other information on the label, taking into account the nature of the user (e.g. consumer, employers and workers), the quantity supplied, and the intended and foreseeable circumstances of use. Where a decision is made to omit a precautionary statement the manufacturer or supplier of the substance or mixture should be able to demonstrate that the precautionary statement is not appropriate for the intended and foreseeable use, including potential emergency situations.

#### A3.2.5.2 *Combination or consolidation of precautionary statements*

A3.2.5.2.1 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 (see tables A3.2.1 to A3.2.5). 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 combined 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 combined precautionary statements.

A3.2.5.2.2 Flexibility in the application of individual, combinations or consolidations of precautionary statements is encouraged to save label space and improve readability. Precautionary statements can be combined by using the word "and", additional punctuation, and changing the case of the initial letter of the word at the beginning of a statement. For example, P302 + P335 + P334 "**IF ON SKIN: Brush off loose particles from skin and immerse in cool water [or wrap in wet bandages]**."The tables in this section and the matrix in section 3 of annex 3 include a number of combined precautionary statements. However, these are only examples and those responsible for labelling should further combine and consolidate phrases where this contributes to clarity and comprehensibility of label information.

A3.2.5.2.3 Combination of precautionary statements can also be useful for different types of hazard where the precautionary behaviour is similar. Examples are P370 + P372+ P380 + P373 "**In case of fire: Explosion risk**. **Evacuate area. DO NOT fight fire when fire reaches explosives**" and P210 + P403 "**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place"**.

### A3.2.5.3 *Variations of text not affecting the safety message*

A3.2.5.3.1 Subject to any requirements of competent authorities, the precautionary statements that appear on labels or in safety data sheets may incorporate minor textual variations from those set out in the GHS where these variations assist in communicating safety information and the safety advice is not diluted or compromised. These may include spelling variations, synonyms or other equivalent terms appropriate to the region where the product is supplied and used.

A3.2.5.3.2 In all cases, clear plain language is essential to convey information on precautionary behaviour. Furthermore, to ensure clarity of safety messages any variations should be applied consistently on the label and in the safety data sheet.

### A3.2.5.4 *Application of precautionary statements concerning medical response*

A3.2.5.4.1 Where a substance or mixture is classified for a number of health hazards, this may trigger multiple precautionary statements relating to medical response. In general, the following principles should be applied:

(a) Always combine medical response statements with at least one route of exposure or symptom ("IF" statement). However, this does not apply to P319 "**Get medical help if you feel unwell**" for specific target organ toxicity repeated exposure, or to P317 "**Get medical help**" for gases under pressure (refrigerated liquefied gas) which are not combined with a separate "IF" statement. Relevant "IF" statements describing symptoms (e.g. P332, P333, P337, P342) should be included in full;

(b) Where the same medical response statement is triggered for different routes of exposure, then the exposure routes should be combined. If the same response statement is triggered with three or more routes of exposure then P308, "**IF exposed or concerned:**", may be used instead. If a route of exposure is triggered multiple times it should only be included once;

(c) Where different medical response statements are triggered for the same route of exposure, then P316 "**Get emergency medical help immediately**" should have priority over P317 "**Get medical help**"; and P317 should have priority over P319 "**Get medical help if you feel unwell**". P318, "**If exposed or concerned get medical advice**", should always appear if triggered. To improve clarity and readability when more than one medical statement appears, supplemental text such as 'additionally' or 'also' should be inserted;

(d) Where different medical response statements are triggered for different routes of exposure, all the relevant precautionary statements for medical response should appear.

For example:

1. Where P301 and P304 "**IF SWALLOWED:**", "**IF INHALED:**" and P302 "**IF ON SKIN:**" (for acute toxicity oral 2, inhalation 1 and skin corrosion respectively) are triggered with P316 "**Get emergency medical help immediately**", then P301 + P304 + P302 + P316, "**IF SWALLOWED, INHALED OR ON SKIN: Get emergency medical help immediately**" should appear. Alternatively, "**IF SWALLOWED, INHALED OR ON SKIN:**" may be replaced by P308, "**IF exposed or concerned:**".

2. Where P301 "**IF SWALLOWED:**" (for both aspiration hazard and for acute toxicity oral 4) is triggered with P316 "**Get emergency medical help immediately**" and P317 "**Get medical help**" respectively, then P301 + P316 "**IF SWALLOWED: Get emergency medical help immediately**" should appear. Where the classification also includes germ cell mutagenicity, carcinogenicity or reproductive toxicity triggering P318 "**If exposed or concerned, get medical advice**", then "**IF SWALLOWED: Get emergency medical help immediately. Additionally, if exposed or concerned, get medical advice**" should appear.

3. Where P304, P301, P302 and P333 "**IF INHALED:**", "**IF SWALLOWED:**", "**IF ON SKIN:**" and "**If skin irritation or rash occurs:**" (for acute toxicity inhalation 2, acute toxicity oral 4 and skin sensitization respectively) are triggered with P316 "**Get emergency medical help immediately**", and P317 "**Get medical help**", then "**IF INHALED: Get emergency medical help immediately**" and "**IF SWALLOWED or if skin irritation or rash occurs: Get medical help**" should appear.

4. Where P302 and P305 "**IF ON SKIN:**" and "**IF IN EYES:**" (for acute toxicity dermal 2 and eye irritation respectively) are triggered with P316 "**Get emergency medical help immediately**", P317 "**Get medical help**" and P319 "**Get medical help if you feel unwell**" (for specific target

organ toxicity repeated exposure), then P302 + P316 "**IF ON SKIN: Get emergency medical help immediately**", P337 + P317 "**If eye irritation persists: Get medical help**" and P319 "**Get medical help if you feel unwell**" should all appear.

A3.2.5.4.2 Precautionary statements setting out other relevant responses such as P330 to P336, P338, P340, P351 to P354 and P360 to P364 should also appear in full on the label as appropriate.

### A3.2.6 General precautionary measures

A3.2.6.1 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 two groups of users should be taken into account: consumers and employers/workers.

A3.2.6.2 In addition to the appropriate precautionary statements in the matrix, taking into account the guidance in this section, the general precautionary statements laid out in table A3.2.1 are appropriate for consumers and should also appear on GHS labels.

## Table A3.2.1: General precautionary statements

| Code<br>(1) | General precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(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 carefully and follow all instructions.** | as appropriate | | Consumer products<br>*- omit where P203 is used.* |

## Table A3.2.2: Prevention precautionary statements

| Code<br>(1) | Prevention precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | | Conditions for use<br>(5) |
|---|---|---|---|---|---|
| P201 | *[Deleted]* | | | | |
| P202 | *[Deleted]* | | | | |
| P203 | **Obtain, read and follow all safety instructions before use.** | Explosives (chapter 2.1) | 1, 2A, 2B | | |
| | | Flammable gases (chapter 2.2) | 1A | Chemically unstable gas A | |
| | | | | Chemically unstable gas B | |
| | | Germ cell mutagenicity (chapter 3.5) | 1, 1A, 1B, 2 | | |
| | | Carcinogenicity (chapter 3.6) | 1, 1A, 1B, 2 | | |
| | | Reproductive toxicity (chapter 3.7) | 1, 1A, 1B, 2 | | |
| | | Reproductive toxicity, effects on or via lactation (chapter 3.7) | Additional category | | |
| P210 | **Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.** | Explosives (chapter 2.1) | 1, 2A, 2B, 2C | | |
| | | Flammable gases (chapter 2.2) | 1A | Flammable gas | |
| | | | | Pyrophoric gas | |
| | | | | Chemically unstable gas A | |
| | | | | Chemically unstable gas B | |
| | | | 1B, 2 | | |
| | | Aerosols (chapter 2.3) | 1, 2, 3 | | |
| | | Chemicals under pressure (chapter 2.3) | 1, 2, 3 | | |
| | | 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<br>A, B, C, D, E, F | | |

**Table A3.2.2: Prevention precautionary statements *(cont'd)***

| Code<br>(1) | Prevention precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P210<br>*(cont'd)* | **Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.** | Pyrophoric liquids (chapter 2.9) | 1 | |
| | | Pyrophoric solids (chapter 2.10) | 1 | |
| | | Oxidizing liquids (chapter 2.13) | 1, 2, 3 | |
| | | Oxidizing solids (chapter 2.14) | 1, 2, 3 | |
| | | Organic peroxides (chapter 2.15) | Types<br>A, B, C, D, E, F | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | |
| P211 | **Do not spray on an open flame or other ignition source.** | Aerosols (chapter 2.3) | 1, 2 | |
| | | Chemicals under pressure (chapter 2.3) | 1, 2 | |
| P212 | **Avoid heating under confinement or reduction of the desensitizing agent** | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | |
| | | | | |
| P220 | **Keep away from clothing and other combustible materials.** | Oxidizing gases (chapter 2.4) | 1 | |
| | | Oxidizing liquids (chapter 2.13) | 1, 2, 3 | |
| | | Oxidizing solids (chapter 2.14) | 1, 2, 3 | |
| P222 | **Do not allow contact with air.** | Flammable gases (chapter 2.2) | 1A, Pyrophoric gas | *– if emphasis of the hazard statement is deemed necessary.* |
| | | 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 | *– if emphasis of the hazard statement is deemed necessary.* |
| | | | | |
| P230 | **Keep diluted with ...** | Explosives (chapter 2.1) | 1, 2A, 2B, 2C | *- for explosive substances and mixtures that are diluted with solids or liquids, or wetted with, dissolved or suspended in water or other liquids to reduce their explosive properties.*<br>…Manufacturer/supplier or competent authority to specify appropriate material. |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | ...Manufacturer/supplier or the competent authority to specify appropriate material. |

**Table A3.2.2: Prevention precautionary statements *(cont'd)***

| Code<br>(1) | Prevention precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P231 | **Handle and store contents under inert gas/...** | Pyrophoric liquids (chapter 2.9) | 1 | …Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if "inert gas" is not appropriate. |
| | | Pyrophoric solids (chapter 2.10) | 1 | |
| | | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | *– if the substance or mixture reacts readily with moisture in air.*<br>…Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if "inert gas" is not appropriate. |
| 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 | *– if the liquid is volatile and may generate an explosive atmosphere.* |
| | | Pyrophoric liquids (chapter 2.9) | 1 | |
| | | Pyrophoric solids (chapter 2.10) | 1 | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | *– if the chemical is volatile and may generate a hazardous atmosphere.* |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | *– if the chemical is volatile and may generate a hazardous atmosphere.* |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | |
| P234 | **Keep only in original packaging.** | Explosives (chapter 2.1) | 2A, 2B, 2C | *- Omit where P236 is used.* |
| | | 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 | |
| | | Corrosive to metals (chapter 2.16) | 1 | |
| P235 | **Keep cool.** | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.* |
| | | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | *– may be omitted if P411 is given on the label.* |
| | | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | *– may be omitted if P413 is given on the label.* |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | *– may be omitted if P411 is given on the label.* |

**Table A3.2.2: Prevention precautionary statements *(cont'd)***

| Code<br>(1) | Prevention precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P236 | **Keep only in original packaging; Division … in the transport configuration.** | Explosives (chapter 2.1) | 2A, 2B, 2C | *- To be applied for explosives assigned a division within Class 1 for transport.*<br>*- May be omitted for single packaging where the transport pictogram displaying the division (within Class 1) appears.*<br>*- May be omitted where the use of different outer packaging results in different divisions for transport.*<br>…Manufacturer/supplier or competent authority to specify the division for transport. |
| | | | | |
| P240 | **Ground and bond container and receiving equipment.** | Explosives (chapter 2.1) | 1, 2A, 2B, 2C | *– if the explosive is electrostatically sensitive.* |
| | | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– if the liquid is volatile and may generate an explosive atmosphere.* |
| | | Flammable solids (chapter 2.7) | 1, 2 | *– if the solid is electrostatically sensitive.* |
| | | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | *– if electrostatically sensitive and able to generate an explosive atmosphere.* |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | *– if electrostatically sensitive and able to generate an explosive atmosphere.* |
| P241 | **Use explosion-proof [electrical/ventilating/lighting/...] equipment.** | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– if the liquid is volatile and may generate an explosive atmosphere.*<br>*– text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.*<br>*– precautionary statement may be omitted where local or national legislation introduces more specific provisions.* |
| | | Flammable solids (chapter 2.7) | 1, 2 | *– if dust clouds can occur.*<br>*– text in square brackets may be used to specify specific electrical, ventilating, lighting or other equipment if necessary and as appropriate.*<br>*– precautionary statement may be omitted where local or national legislation introduces more specific provisions.* |

**Table A3.2.2: Prevention precautionary statements *(cont'd)***

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|---|---|---|---|---|
| P242 | **Use non-sparking tools.** | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– if the liquid is volatile and may generate an explosive atmosphere and if the minimum ignition energy is very low. (This applies to substances and mixtures where the minimum ignition energy is < 0.1 mJ, e.g. carbon disulphide).* |
| P243 | **Take action to prevent static discharges.** | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– if the liquid is volatile and may generate an explosive atmosphere.*<br>*– may be omitted where local or national legislation introduces more specific provisions.* |
| 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) | 1, 2A, 2B, 2C | *– if the explosive is mechanically sensitive*<br>...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 | |
| | | | | |
| P260 | **Do not breathe dust/fume/gas/mist/vapours/spray.** | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | Manufacturer/supplier or the competent authority to specify applicable physical state(s). |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure (chapter 3.8) | 1 | |
| | | Specific target organ toxicity, repeated exposure (chapter 3.9) | 1 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | *– specify do not breathe dusts or mists*<br>*– if inhalable particles of dusts or mists may occur during use.* |
| | | 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) | 4 | *– may be omitted if P260 is given on the label.*<br>Manufacturer/supplier or the competent authority to specify applicable physical state(s). |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure (chapter 3.8) | 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 | |
| | | Specific target organ toxicity, repeated exposure (chapter 3.9) | 2 | |

**Table A3.2.2: Prevention precautionary statements *(cont'd)***

| Code<br>(1) | Prevention precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P262 | **Do not get in eyes, on skin, or on clothing.** | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3 | |
| P263 | **Avoid contact during pregnancy and while nursing.** | Reproductive toxicity – effects on or via lactation (chapter 3.7) | Additional category | |
| P264 | **Wash hands [and ...] thoroughly after handling.** | Acute toxicity, oral (chapter 3.1) | 1, 2, 3, 4 | *- text in square brackets to be used when the manufacturer/supplier or the competent authority specify other parts of the body to be washed after handling.* |
| | | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Serious eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| | | Reproductive toxicity, effects on or via lactation (chapter 3.7) | Additional category | |
| | | Specific target organ toxicity, single exposure (chapter 3.8) | 1, 2 | |
| | | Specific target organ toxicity, repeated exposure (chapter 3.9) | 1 | |
| P265 | **Do not touch eyes.** | Serious eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| | | | | |
| 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, 3 | |
| | | 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 with adequate ventilation.** | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3, 4 | Manufacturer/supplier to specify what type of ventilation would be adequate for safe use on the safety data sheet and in any supplemental safety instructions provided to consumers. |
| | | 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 | |
| P272 | **Contaminated work clothing should not be allowed out of the workplace.** | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |

**Table A3.2.2: Prevention precautionary statements *(cont'd)***

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|---|---|---|---|---|
| P273 | **Avoid release to the environment.** | Hazardous to the aquatic environment, acute hazard (chapter 4.1) | 1, 2, 3 | – *if this is not the intended use.* |
| | | Hazardous to the aquatic environment, long-term hazard (chapter 4.1) | 1, 2, 3, 4 | |
| | | | | |
| P280 | **Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...** | Explosives (chapter 2.1) | 1, 2A, 2B, 2C | Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment. |
| | | Flammable gases (chapter 2.2) | 1A, Pyrophoric gas | |
| | | 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 | |
| | | 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 | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | |
| | | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3, 4 | – *Specify protective gloves/clothing.* Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate. |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | – *Specify protective gloves/clothing and eye/face protection.* Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate. |
| | | Skin irritation (chapter 3.2) | 2 | – *Specify protective gloves.* Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate. |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |

**Table A3.2.2: Prevention precautionary statements *(cont'd)***

| Code<br>(1) | Prevention precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P280<br>*(cont'd)* | **Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...** | Serious eye damage (chapter 3.3) | 1 | - *Specify protective gloves and eye/face protection.* Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate. |
| | | Eye irritation (chapter 3.3) | 2/2A | |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | – *Specify protective gloves/clothing.* Manufacturer/supplier or the competent authority may further specify type of equipment where appropriate |
| | | Germ cell mutagenicity (chapter 3.5) | 1, 1A, 1B, 2 | Manufacturer/supplier or the competent authority to specify the appropriate personal protective equipment. |
| | | Carcinogenicity (chapter 3.6) | 1, 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1, 1A, 1B, 2 | |
| P282 | **Wear cold insulating gloves and either face shield or eye protection.** | Gases under pressure (chapter 2.5) | Refrigerated liquefied gas | |
| P283 | **Wear fire resistant or flame-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, 3 | Manufacturer/supplier to specify on the safety data sheet what type of ventilation would be adequate for safe use and provide additional information with the chemical at the point of use that explains what type of respiratory equipment may also be needed. |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | | | |
| P231<br>+<br>P232 | **Handle and store contents under inert gas/.... Protect from moisture.** | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | – *if the substance or mixture reacts readily with moisture in air.* …Manufacturer/supplier or the competent authority to specify appropriate liquid or gas if "inert gas" is not appropriate. |
| P264<br>+<br>P265 | **Wash hands [and…] thoroughly after handling. Do not touch eyes.** | Serious eye damage (chapter 3.3) | 1 | - *text in square brackets to be used when the manufacturer/supplier or the competent authority specify other parts of the hibody to be washed after handling.* |
| | | Eye irritation (chapter 3.3) | 2/2A, 2B | |

**Table A3.2.3: Response precautionary statements**

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P301 | **IF SWALLOWED:** | Acute toxicity, oral (chapter 3.1) | 1, 2, 3, 4, 5 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Aspiration hazard (chapter 3.10) | 1, 2 | |
| P302 | **IF ON SKIN:** | 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 | |
| | | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3, 4, 5 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | 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 | |
| P304 | **IF INHALED:** | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3, 4, 5 | |
| | | Skin corrosion (chapter 3.2) | 1, 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) | 1, 1A, 1B, 1C | |
| | | Serious eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| P306 | **IF ON CLOTHING:** | Oxidizing liquids (chapter 2.13) | 1 | |
| | | Oxidizing solids (chapter 2.14) | 1 | |
| P308 | **IF exposed or concerned:** | Specific target organ toxicity, single exposure (chapter 3.8) | 1, 2 | |
| | | | | |
| P310 | *[Deleted]* | | | |
| P311 | *[Deleted]* | | | |
| P312 | *[Deleted]* | | | |
| P313 | *[Deleted]* | | | |
| P314 | *[Deleted]* | | | |
| P315 | *[Deleted]* | | | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P316 | **Get emergency medical help immediately.** | Acute toxicity, oral (chapter 3.1) | 1, 2, 3 | Competent authority or manufacturer/supplier may add, "Call" followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a poison centre, emergency centre or doctor. |
| | | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure; (chapter 3.8) | 1, 2 | |
| | | Aspiration hazard (chapter 3.10) | 1, 2 | |
| P317 | **Get medical help.** | Gases under pressure (chapter 2.5) | Refrigerated liquefied gas | |
| | | Acute toxicity, oral (chapter 3.1) | 4, 5 | |
| | | Acute toxicity, dermal (chapter 3.1) | 4, 5 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 4, 5 | |
| | | Skin irritation (chapter 3.2) | 2, 3 | |
| | | Serious eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P318 | **IF exposed or concerned, get medical advice.** | Germ cell mutagenicity (chapter 3.5) | 1, 1A, 1B, 2 | |
| | | Carcinogenicity (chapter 3.6) | 1, 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1, 1A, 1B, 2 | |
| | | Reproductive toxicity, effects on or via lactation (chapter 3.7) | Additional category | |
| P319 | **Get medical help if you feel unwell.** | 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 | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|---|---|---|---|---|
| P320 | **Specific treatment is urgent (see information on this label and safety data sheet).** | Acute toxicity, oral (chapter 3.1) | 1, 2, 3 | *- if immediate measures that can be easily applied, such as the administration of antidote or other specific treatment are required. These measures must be specified on the label and safety data sheet, recognizing additional detailed instructions, including any training requirements, should be provided on the safety data sheet, if appropriate.* |
| | | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | |
| P321 | **Specific treatment (see information on this label and safety data sheet).** | Acute toxicity, oral (chapter 3.1) | 4 | *- if immediate measures that can be easily applied, such as the administration of antidote or other specific treatment are required. These measures must be specified on the label and safety data sheet, recognizing additional detailed instructions, including any training requirements, should be provided on the safety data sheet, if appropriate.*<br>*- may be omitted if P320 is given on the label.* |
| | | Acute toxicity, dermal (chapter 3.1) | 4 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 4 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure (chapter 3.8) | 1 | |
| P322 | **Specific treatment is urgent (see information on the safety data sheet).** | Acute toxicity, oral (chapter 3.1) | 1, 2, 3 | *Manufacturer/supplier to reference on the safety data sheet detailed instructions, including any training requirements, to administer an antidote or other specific treatment.*<br>*- may be omitted if P320 is given on the label.* |
| | | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | |
| P323 | **Specific treatment (see information on the safety data sheet).** | Acute toxicity, oral (chapter 3.1) | 4 | *Manufacturer/supplier to reference on the safety data sheet detailed instructions, including any training requirements, to administer an antidote or other specific treatment.*<br>*- may be omitted if P321 or P322 is given on the label.* |
| | | Acute toxicity, dermal (chapter 3.1) | 4 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 4 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure (chapter 3.8) | 1 | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P330 | **Rinse mouth.** | Acute toxicity, oral (chapter 3.1) | 1, 2, 3, 4 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| P331 | **Do NOT induce vomiting.** | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Aspiration hazard (chapter 3.10) | 1, 2 | |
| P332 | **If skin irritation occurs:** | Skin irritation (chapter 3.2) | 2, 3 | **-** *may be omitted if P333 is given on the label.* |
| P333 | **If skin irritation or rash occurs:** | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P334 | **Immerse in cool water [or wrap in wet bandages].** | Pyrophoric liquids (chapter 2.9) | 1 | *– text in square brackets to be used for pyrophoric liquids and solids.* |
| | | Pyrophoric solids (chapter 2.10) | 1 | |
| | | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2 | *– use only "Immerse in cool water." Text in square brackets should not be used.* |
| 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 | **Immediately 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) | 2/2A, 2B | |
| P338 | **Remove contact lenses, if present and easy to do. Continue rinsing.** | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Serious eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| | | | | |
| P340 | **Remove person to fresh air and keep comfortable for breathing.** | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3, 4, 5 | |
| | | Skin corrosion (chapter 3.2) | 1, 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.** | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| P352 | **Wash with plenty of water/...** | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3, 4, 5 | …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 | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P353 | **Rinse affected areas with water [or shower].** | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– text in square brackets to be included where the manufacturer/supplier or the competent authority considers it appropriate for the specific chemical.* |
| P354 | **Immediately rinse with water for several minutes.** | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Serious eye damage (chapter 3.3) | 1 | |
| | | | | |
| 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) | 1, 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) | 1, 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) | 1, 2A, 2B, 2C | |
| | | Chemicals under pressure (chapter 2.3) | 1, 2 | |
| | | 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 | |
| | | Organic peroxides (chapter 2.15) | Types A, B, C. D, E, F | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3 | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| 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 | | |
| | | Desensitized explosives (chapter 2.17) | 4 | | |
| P372 | **Explosion risk.** | Explosives (chapter 2.1) | 1, 2A, 2B | | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Type A | | |
| | | Organic peroxides (chapter 2.15) | Type A | | |
| P373 | **DO NOT fight fire when fire reaches explosives.** | Explosives (chapter 2.1) | 1, 2A, 2B | | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Type A | | |
| | | Organic peroxides (chapter 2.15) | Type A | | |
| P375 | **Fight fire remotely due to the risk of explosion.** | Explosives (chapter 2.1) | 2C | | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Type B | | |
| | | Oxidizing liquids (chapter 2.13) | 1 | | |
| | | Oxidizing solids (chapter 2.14) | 1 | | |
| | | Organic peroxides (chapter 2.15) | Type B | | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | | |
| P376 | **Stop leak if safe to do so.** | Chemicals under pressure (chapter 2.3) | 1, 2, 3 | | |
| | | Oxidizing gases (chapter 2.4) | 1 | | |
| P377 | **Leaking gas fire: Do not extinguish, unless leak can be stopped safely.** | Flammable gases (chapter 2.2) | 1A | Flammable gas | |
| | | | | Pyrophoric gas | |
| | | | | Chemically unstable gas A | |
| | | | | Chemically unstable gas B | |
| | | | 1B, 2 | | |
| P378 | **Use ... to extinguish.** | Chemicals under pressure (chapter 2.3) | 1, 2 | | *– if water increases risk.* ... Manufacturer/supplier or the competent authority to specify appropriate media. |
| | | 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 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 | | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|---|---|---|---|---|
| P378 *(cont'd)* | **Use ... to extinguish.** | Oxidizing liquids (chapter 2.13) | 1, 2, 3 | |
| | | Oxidizing solids (chapter 2.14) | 1, 2, 3 | |
| | | Organic peroxides (chapter 2.15) | Types B, C, D, E, F | |
| | | | | |
| P380 | **Evacuate area.** | Explosives (chapter 2.1) | 1, 2A, 2B, 2C | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Types A, B | |
| | | Oxidizing liquids (chapter 2.13) | 1 | |
| | | Oxidizing solids (chapter 2.14) | 1 | |
| | | Organic peroxides (chapter 2.15) | Types A, B | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | |
| P381 | **In case of leakage, eliminate all ignition sources.** | Flammable gases (chapter 2.2) | 1A Flammable gas | |
| | | | 1A Pyrophoric gas | |
| | | | 1A Chemically unstable gas A | |
| | | | 1A Chemically unstable gas B | |
| | | | 1B, 2 | |
| | | Chemicals under pressure (chapter 2.3) | 1, 2 | |
| | | | | |
| P390 | **Absorb spillage to prevent material-damage.** | 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 + P316 | **IF SWALLOWED: Get emergency medical help immediately.** | Acute toxicity, oral (chapter 3.1) | 1, 2, 3 | Competent authority or manufacturer / supplier may add, "Call" followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a poison centre, emergency centre or doctor. |
| | | Aspiration hazard (chapter 3.10) | 1, 2 | |
| P301 + P317 | **IF SWALLOWED: Get medical help.** | Acute toxicity, oral (chapter 3.1) | 4, 5 | |
| P302 + P317 | *[Deleted]* | | | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P302<br>+<br>P334 | **IF ON SKIN: Immerse in cool water or wrap in wet bandages.** | Pyrophoric liquids (chapter 2.9) | 1 | |
| P302<br>+<br>P352 | **IF ON SKIN: Wash with plenty of water/...** | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3, 4, 5 | …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 | |
| P304<br>+<br>P317 | *[Deleted]* | | | |
| P304<br>+<br>P340 | **IF INHALED: Remove person to fresh air and keep comfortable for breathing.** | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3, 4, 5 | |
| | | Skin corrosion (chapter 3.2) | 1, 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 | |
| P306<br>+<br>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<br>+<br>P316 | **IF exposed or concerned: Get emergency medical help immediately.** | Specific target organ toxicity, single exposure (chapter 3.8) | 1, 2 | Competent authority or manufacturer / supplier may add, "Call" followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a poison centre, emergency centre or doctor. |
| P332<br>+<br>P317 | **If skin irritation occurs: Get medical help.** | Skin irritation (chapter 3.2) | 2, 3 | *– may be omitted when P333+P317 is given on the label.* |
| P333<br>+<br>P317 | **If skin irritation or rash occurs: Get medical help.** | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P336<br>+<br>P317 | **Immediately thaw frosted parts with lukewarm water. Do not rub affected area. Get medical help.** | Gases under pressure (chapter 2.5) | Refrigerated liquefied gas | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P337<br>+<br>P317 | **If eye irritation persists: Get medical help.** | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| P342<br>+<br>P316 | **If experiencing respiratory symptoms: Get emergency medical help immediately.** | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | Competent authority or manufacturer/supplier may add, "Call" followed by the appropriate emergency telephone number, or the appropriate emergency medical help provider, for example, a poison centre, emergency centre or doctor. |
| P361<br>+<br>P364 | **Take off immediately all contaminated clothing and wash it before reuse.** | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3 | |
| P362<br>+<br>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<br>+<br>P376 | **In case of fire: Stop leak if safe to do so.** | Oxidizing gases (chapter 2.4) | 1 | |
| P370<br>+<br>P378 | **In case of fire: Use ... to extinguish.** | Chemicals under pressure (chapter 2.3) | 1, 2 | *– if water increases risk.*<br>... Manufacturer/supplier or the competent authority to specify appropriate media. |
| | | 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 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 | |
| | | Organic peroxides (chapter 2.15) | Types C, D, E, F | |
| | | | | |
| P301<br>+<br>P330<br>+<br>P331 | **IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.** | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P302<br>+<br>P335<br>+<br>P334 | **IF ON SKIN: Brush off loose particles from skin and immerse in cool water [or wrap in wet bandages].** | Pyrophoric solids (chapter 2.10) | 1 | *– text in square brackets to be used for pyrophoric solids* |
| | | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2 | *– use only "Immerse in cool water." Text in square brackets should not be used.* |
| P302<br>+<br>P361<br>+<br>P354 | **IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.** | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| P303<br>+<br>P361<br>+<br>P353 | **IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].** | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– text in square brackets to be included where the manufacturer/supplier or the competent authority considers it appropriate for the specific chemical.* |
| P305<br>+<br>P351<br>+<br>P338 | **IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.** | Eye irritation (chapter 3.3) | 2/2A, 2B | |
| P305<br>+<br>P354<br>+<br>P338 | **IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.** | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | |
| | | Serious eye damage (chapter 3.3) | 1 | |
| P370<br>+<br>P380<br>+<br>P375 | **In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.** | Explosives (chapter 2.1) | 2C | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3 | |
| P371<br>+<br>P380<br>+<br>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 | |
| | | Desensitized explosives (chapter 2.17) | 4 | |

**Table A3.2.3: Response precautionary statements *(cont'd)***

| Code<br>(1) | Response precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P370<br>+<br>P372<br>+<br>P380<br>+<br>P373 | **In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.** | Explosives (chapter 2.1) | 1, 2A, 2B | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Type A | |
| | | Organic peroxides (chapter 2.15) | Type A | |
| P370<br>+<br>P380<br>+<br>P375<br>[+<br>P378] | **In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. [Use…to extinguish].** | Self-reactive substances and mixtures (chapter 2.8) | Type B | *– text in square brackets to be used if water increases risk.*<br>… Manufacturer/supplier or the competent authority to specify appropriate media. |
| | | Organic peroxides (chapter 2.15) | Type B | |

**Table A3.2.4: Storage precautionary statements**

| Code<br>(1) | Storage precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | | Conditions for use<br>(5) |
|---|---|---|---|---|---|
| P401 | **Store in accordance with…** | Explosives (chapter 2.1) | 1, 2A, 2B, 2C | | ... Manufacturer/supplier or the competent authority to specify local/regional/ national/international regulations as applicable. |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | | |
| 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) | 1A | Flammable gas | |
| | | | | Pyrophoric gas | |
| | | | | Chemically unstable gas A | |
| | | | | Chemically unstable gas B | |
| | | | 1B, 2 | | |
| | | Chemicals under pressure (chapter 2.3) | 1, 2, 3 | | |
| | | 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 | | *– for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.* |
| | | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | | *– except for temperature controlled self-reactive substances and mixtures or organic peroxides because condensation and consequent freezing may take place.* |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | | |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | | *– if the chemical is volatile and may generate a hazardous atmosphere.* |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | | |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | | *– if the chemical is volatile and may generate a hazardous atmosphere.* |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | | |

**Table A3.2.4: Storage precautionary statements *(cont'd)***

| Code<br>(1) | Storage precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P404 | **Store in a closed container.** | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | |
| 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) | 1, 1A, 1B, 1C | |
| | | Germ cell mutagenicity (chapter 3.5) | 1, 1A, 1B, 2 | |
| | | Carcinogenicity (chapter 3.6) | 1, 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1, 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 a corrosion resistant/...container with a resistant inner liner.** | Corrosive to metals (chapter 2.16) | 1 | *– may be omitted if P234 is given on the label*<br>... Manufacturer/supplier or the competent authority to specify other compatible materials. |
| P407 | **Maintain air gap between stacks or pallets.** | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | |
| | | | | |
| P410 | **Protect from sunlight.** | Aerosols (chapter 2.3) | 1, 2, 3 | |
| | | Chemicals under pressure (chapter 2.3) | 1, 2, 3 | *– may be omitted for chemicals under pressure filled in transportable cylinders in accordance with packing instruction P200 or P206 of the UN Model Regulations, unless those chemicals under pressure are subject to (slow) decomposition or polymerization, or the competent authority provides otherwise.* |

**Table A3.2.4: Storage precautionary statements *(cont'd)***

| Code<br>(1) | Storage precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P410<br>*(con't)* | **Protect from sunlight.** | Gases under pressure (chapter 2.5) | Compressed gas<br>Liquefied gas<br>Dissolved gas | *– 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.* |
| | | 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 | *– if temperature control is required (according to section 2.8.2.3 or 2.15.2.3 of the GHS) or if otherwise deemed necessary.*<br>...Manufacturer/supplier or the competent authority to specify temperature using applicable temperature scale. |
| | | 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 | Manufacturer/supplier or the competent authority to use applicable temperature scale. |
| 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 using applicable scale. |
| | | | | |
| P420 | **Store separately.** | 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 | |
| | | Oxidizing liquids (chapter 2.13) | 1 | |
| | | Oxidizing solids (chapter 2.14) | 1 | |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | |
| | | | | |
| P402<br>+<br>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 | |

**Table A3.2.4: Storage precautionary statements *(cont'd)***

| Code<br>(1) | Storage precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P403<br>+<br>P233 | **Store in a well-ventilated place. Keep container tightly closed.** | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | *– if the chemical is volatile and may generate a hazardous atmosphere.* |
| | | 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<br>+<br>P235 | **Store in a well-ventilated place. Keep cool.** | Flammable liquids (chapter 2.6) | 1, 2, 3 | *– for flammable liquids Category 1 and other flammable liquids that are volatile and may generate an explosive atmosphere.* |
| P410<br>+<br>P403 | **Protect from sunlight. Store in a well-ventilated place.** | Chemicals under pressure (chapter 2.3) | 1, 2, 3 | *– P410 may be omitted for chemicals under pressure filled in transportable cylinders in accordance with packing instruction P200 or P206 of the UN Model Regulations, unless those chemicals under pressure are subject to (slow) decomposition or polymerization, or the competent authority provides otherwise.* |
| | | Gases under pressure (chapter 2.5) | Compressed gas<br>Liquefied gas<br>Dissolved gas | *– P410 may be omitted for gases filled in transportable gas cylinders in accordance with packing instruction P200 of the UN Model Regulations, unless those gases are subject to (slow) decomposition or polymerisation, or the competent authority provides otherwise.* |
| P410<br>+<br>P412 | **Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.** | Aerosols (chapter 2.3) | 1, 2, 3 | Manufacturer/supplier or the competent authority to use applicable temperature scale. |

## Table A3.2.5: Disposal precautionary statements

| Code<br>(1) | Disposal precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P501 | **Dispose of contents/container to ...** | Flammable liquids (chapter 2.6) | 1, 2, 3, 4 | ... in accordance with local/regional/ national/international regulation (to be specified).<br>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both. |
| | | 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 | |
| | | Desensitized explosives (chapter 2.17) | 1, 2, 3, 4 | |
| | | 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, 3, 4 | |
| | | Skin corrosion (chapter 3.2) | 1, 1A, 1B, 1C | ... in accordance with local/regional/ national/international regulation (to be specified).<br>Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both. |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Germ cell mutagenicity (chapter 3.5) | 1, 1A, 1B, 2 | |
| | | Carcinogenicity (chapter 3.6) | 1, 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1, 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 | |
| | | 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 | |

**Table A3.2.5: Disposal precautionary statements *(cont'd)***

| Code<br>(1) | Disposal precautionary statements<br>(2) | Hazard class<br>(3) | Hazard category<br>(4) | Conditions for use<br>(5) |
|---|---|---|---|---|
| P502 | **Refer to manufacturer or supplier for information on recovery or recycling.** | Hazardous to the ozone layer (chapter 4.2) | 1 | |
| | | Hazardous by contributing to global warming (chapter 4.2) | 1 | |
| P503 | **Refer to manufacturer/supplier… for information on disposal/recovery/recycling.** | Explosives (chapter 2.1) | 1, 2A, 2B, 2C | … Manufacturer/supplier or the competent authority to specify appropriate source of information in accordance with local/regional/national/international regulations as applicable |