ANNEX 3

Section 1

CODIFICATION OF HAZARD STATEMENTS

A3.1.1 Introduction

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

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

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

A3.1.2 Codification of hazard statements

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

(a) the letter “H” (for “hazard statement”);

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

- “2” for physical hazards;
- “3” for health hazards;
- “4” for environmental hazards;

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

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

Column (1) The hazard statement code;

Column (2) The hazard statement text;

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

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

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

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

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

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

Table A3.1.1: Hazard statement codes for physical hazards

Code (1)	Physical hazard statements (2)	Hazard class (GHS chapter) (3)	Hazard category (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
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

Code (1)	Physical hazard statements (2)	Hazard class (GHS chapter) (3)	Hazard category (4)
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 Liquefied gas 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	Health hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	(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**	Sensitisation, skin (chapter 3.4)	1, 1A, 1B
H318	**Causes serious eye damage**	Serious eye damage/eye irritation (chapter 3.3)	1
H319	**Causes serious eye irritation**	Serious eye damage/eye irritation (chapter 3.3)	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**	Sensitisation, respiratory (chapter 3.4)	1, 1A, 1B
H335	**May cause respiratory irritation**	Specific target organ toxicity, single exposure; Respiratory tract irritation (chapter 3.8);	3
H336	**May cause drowsiness or dizziness**	Specific target organ toxicity, single exposure; Narcotic effects (chapter 3.8)	3
H340	**May cause genetic defects** (*state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)*	Germ cell mutagenicity (chapter 3.5)	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

Code	Health hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	(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

Code	Health hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	(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 + H320	**Causes skin and eye irritation**	Skin corrosion/irritation (chapter 3.2) and serious eye damage/eye irritation (chapter 3.3)	2 (skin)/2B (eye)

Table A3.1.3: Hazard statement codes for environmental hazards

Code (1)	Environmental hazard statements (2)	Hazard class (GHS chapter) (3)	Hazard category (4)
H400	**Very toxic to aquatic life**	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1
H401	**Toxic to aquatic life**	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	2
H402	**Harmful to aquatic life**	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	3
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