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**Committee of Experts on the Transport of Dangerous Goods  
and on the Globally Harmonized System of Classification  
and Labelling of Chemicals**

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

**Thirty-ninth session**

Geneva, 9-11 December 2020

Item 2 of the provisional agenda

**Recommendations made by the Sub-Committee**

**at its thirty-seventh and thirty-eight sessions**

Consolidated list of draft amendments adopted by the   
Sub-Committee at its thirty-seventh and thirty-eighth sessions

Note by the secretariat[[1]](#footnote-2)\*

This document contains a consolidated list of draft amendments to the eighth revised edition of the Globally Harmonized System of Classification and Labelling of Chemicals(GHS)(ST/SG/AC.10/30/Rev.8) adopted by the Sub-Committee at its thirty-seventh and thirty-eighth sessions.

Chapter 1.2

Amend the definition of “***Recommendations on the Transport of Dangerous Goods, Model Regulations***” to read as follows:

“***UN Model Regulations*** means the Model Regulations annexed to the latest revised edition of the Recommendations on the Transport of Dangerous Goods published by the United Nations”.

*Consequential amendment: In the GHS, replace all references to “UN Recommendations on the Transport of Dangerous Goods, Model Regulations”, “Recommendations on the Transport of Dangerous Goods, Model Regulations” and “UN Recommendations for the Transport of Dangerous Goods” with “UN Model Regulations”.*

*(Ref. doc: ST/SG/AC.10/C.4/76)*

Chapter 1.5

1.5.3.2.1 In item 9, delete “and safety characteristics”.

*(Ref. doc: ST/SG/AC.10/C.4/76)*

Chapter 2.3

In table 2.3.1, under “Criteria”:

* Replace “(1)”, “(2)” and “(3)” with “(a)”, “(b)” and “(c)”;
* Replace “(a)”, “(b)”, “(c)” with “(i)”, “(ii)” and “(iii)”.

*(Ref. doc: ST/SG/AC.10/C.4/76)*

Chapter 3.2

In table 3.2.2, under “Criteria”, replace “(1)”, “(2)” and “(3)” with “(a)”, “(b)” and “(c)”.

*(Ref. doc: ST/SG/AC.10/C.4/76)*

In Table 3.2.6:

* In the heading of the third column, amend the list of methods to read: “…Methods 1, 2, 3, 4 and 5”.
* In the row for category 1, on the third cell of the table, insert “, 5” in the list of methods before “< 50 %”
* In the row for category 1A, on the fifth cell of the table, insert “, 5” in the list of methods before “< 15 %”

*(Ref. doc: ST/SG/AC.10/C.4/76)*

Chapter 3.5

3.5.2.7 (a) At the end of the current list, add: “Transgenic Rodent Somatic and Germ Cell Gene Mutation Assays (OECD 488)”.

3.5.2.8 Insert the following references after the introductory sentence, before the current examples (“Liver…”):

“In vivo Mammalian Alkaline Comet Assay (OECD 489)

Transgenic Rodent Somatic and Germ Cell Gene Mutation Assays (OECD 488)”

3.5.2.9 Amend the end of the second example to read as follows: “OECD 476 and 490)”.

*(Ref. doc: ST/SG/AC.10/C.4/76)*

Annex 1

Replace current Annex 1 with the following:

“Annex 1

Classification and labelling summary tables

*NOTE 1: The codification of hazard statements is further explained in Annex 3 (Section 1). The hazard statement codes are intended to be used for reference purposes only. They are not part of the hazard statement text and should not be used to replace it.*

*NOTE 2: To provide clarity, assist labelling practitioners and enable comparison between equivalent classification and labelling systems under the GHS and the UN Model Regulations, transport hazard classes, divisions and pictograms are included in Tables A1.1 to A1.30. However, it should be noted that in these tables the UN Model Regulations classification and labelling entries are provided for indicative purposes only. For transport purposes, the classification and labelling provisions prescribed by the UN Model Regulations shall be used (see also Chapter 1.4, section 1.4.10 of the GHS).*

***NOTE 3:****GHS hazard pictograms are displayed in the shape of a square set at a point with a black symbol on a white background with a red frame. The transport pictograms (commonly referred to as labels in the UN Model Regulations) shall be displayed on a background of contrasting colour or, where appropriate, shall have either a dotted or solid boundary line as provided in Chapter 5.2, section 5.2.2.2 of the UN Model Regulations and in Tables A1.1 to A1.30 below. For some hazard categories, the symbol, number and border line of the transport pictogram may be shown in white instead of black. Where such an alternative is available it is shown in the relevant tables below (see tables A1.2, A1.3, A1.5, A1.6, A1.12, A1.15, A1.17).*

A1.1 Explosives (see Chapter 2.1 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Explosives** | **Unstable explosive** | |  | ***(Transport not allowed)*** | **Danger** | Unstable explosive | H200 |
| **1.1** | |  | Explosive; mass explosion hazard | H201 |
| **1.2** | | Explosive; severe projection hazard | H202 |
| **1.3** | | Explosive; fire, blast or projection hazard | H203 |
| **1.4** | |  | **Warning** | Fire or projection hazard | H204 |
| **1.5** | | *No pictogram* |  | **Danger** | May mass explode in fire | H205 |
| **1.6** | |  | *No signal word* | *No hazard statement* | *None* |

a *Under the UN Model Regulations,* *(\*)* *indicates the place for compatibility group and (\*\*) indicates the place for division - to be left blank if explosive is the subsidiary hazard.*

A1.2 Flammable gases (see Chapter 2.2 for classification criteria)

| **Classification** | | | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | | | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Flammable gases** | **1A** | **Flammable gas** | | **2.1** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\rouge2.tifhttps://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/rouge2_noir.gifor** | **Danger** | Extremely flammable gas | H220 |
| **Pyrophoric gas** | | Extremely flammable gas | H220 |
| May ignite spontaneously if exposed to air | H232 |
| **Chemically unstable gas** | **A** | Extremely flammable gas | H220 |
| May react explosively even in the absence of air | H230 |
| **B** | Extremely flammable gas | H220 |
| May react explosively even in the absence of air at elevated pressure and/or temperature | H231 |
| **1B** | | | Flammable gas | H221 |
| **2** | | | *Not applicable* | *No pictogram* | *Not applicable* | **Warning** |

a *Under the UN Model Regulations, pyrophoric gases and chemically unstable gases (A and B) are classified based on their flammability in Class 2, Division 2.1.*

A1.3 Aerosols and chemicals under pressure (see Chapter 2.3 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Aerosols**  **(section 2.3.1)** | **1** | **2.1** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\rouge2.tifhttps://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/rouge2_noir.gifor** | **Danger** | Extremely flammable aerosol | H222 |
| Pressurized container: may burst if heated | H229 |
| **2** | **Warning** | Flammable aerosol | H223 |
| Pressurized container: may burst if heated | H229 |
| **3** | **2.2** | *No pictogram* | **https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/vert_blanc.gifDescription: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\vert.tifor** | Pressurized container: may burst if heated | H229 |
| **Chemicals under pressure**  **(section 2.3.2)** | **1** | **2.1** | **and** | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\rouge2.tifhttps://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/rouge2_noir.gifor** | **Danger** | Extremely flammable chemical under pressure: may explode if heated | H282 |
| **2** | **Warning** | Flammable chemical under pressure: may explode if heated | H283 |
| **3** | **2.2** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\vert.tif**  **https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/vert_blanc.gifor** | Chemical under pressure: may explode if heated | H284 |

A1.4 Oxidizing gases (see Chapter 2.4 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement code** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Oxidizing gases** | **1** | **2a** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\jaune5-1.tif** | **Danger** | May cause or intensify fire; oxidizer | H270 |

a *Under the UN Model Regulations, oxidising gases are classified under the applicable Class 2 division according to their primary gas hazard and will display the applicable Class 2 transport pictogram. In addition, they are assigned a Division 5.1 (flame over circle) transport pictogram due to their oxidizing subsidiary hazard.*

A1.5 Gases under pressure (see Chapter 2.5 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Gases under pressure** | **Compressed gas** | **2.2** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\vert.tif**https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/vert_blanc.gif**or** | **Warning** | Contains gas under pressure; may explode if heated | H280 |
| **Liquefied gas** | Contains gas under pressure; may explode if heated |
| **Refrigerated liquefied gas** | Contains refrigerated gas; may cause cryogenic burns or injury | H281 |
| **Dissolved gas** | Contains gas under pressure; may explode if heated | H280 |

a *Under the Model Regulations, this pictogram is not required for gases under pressure that are also toxic or flammable gases. In those cases, the applicable toxic or flammable gas hazard class pictogram is used instead.*

A1.6 Flammable liquids (see Chapter 2.6 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Flammable liquids** | **1** | **3** |  | **https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/rouge3_noir.gifor**  **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\rouge3.tif** | **Danger** | Extremely flammable liquid and vapour | H224 |
| **2** | Highly flammable liquid and vapour | H225 |
| **3** | **Warning** | Flammable liquid and vapour | H226 |
| **4** | *Not applicable* | *No pictogram* | *Not applicable* | Combustible liquid | H227 |

A1.7 Flammable solids (see Chapter 2.7 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement code** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Flammable solids** | **1** | **4.1** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\stripes.tif** | **Danger** | Flammable solid | H228 |
| **2** | **Warning** |

A1.8 Self-reactive substances and mixtures (see Chapter 2.8 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Self-reactive substances and mixtures** | **Type A** | **4.1**  **Type A** |  | *(Transport may not be allowed)b* | **Danger** | Heating may cause an explosion | H240 |
| **Type B** | **4.1**  **Type B** | **and** | ***Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\stripes.tif***  **and if applicablea**: | **Danger** | Heating may cause a fire or explosion | H241 |
| **Types  C and D** | **4.1**  **Types  C and D** |  | ***Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\stripes.tif*** | **Danger** | Heating may cause a fire | H242 |
| **Types  E and F** | **4.1**  **Types  E and F** | **Warning** |
| **Type G** | **Type G** | *No pictogram* | *Not applicable* | *No signal word* | *No hazard statement* | *None* |

a *Under the UN Model Regulations, where a Type B substance or mixture has an explosive subsidiary hazard, then the transport pictogram for Divisions 1.1, 1.2 or 1.3 shall also be used without the indication of the division number or the compatibility group. For a substance or mixture of hazard category Type B, special provision 181 may apply (Exemption of explosive label with competent authority approval. See Chapter 3.3 of the UN Model Regulations for more details).*

b *May not be acceptable for transport in the packaging in which it is tested (See 2.4.2.3.2.1 of the UN Model Regulations).*

A1.9 Pyrophoric liquids (see Chapter 2.9 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement code** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Pyrophoric liquids** | **1** | **4.2** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\blan-red.gif** | **Danger** | Catches fire spontaneously if exposed to air | H250 |

A1.10 Pyrophoric solids (see Chapter 2.10 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement code** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Pyrophoric solids** | **1** | **4.2** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\blan-red.gif** | **Danger** | Catches fire spontaneously if exposed to air | H250 |

A1.11 Self-heating substances and mixtures (see Chapter 2.11 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Self-heating substances and mixtures** | **1** | **4.2** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\blan-red.gif** | **Danger** | Self-heating; may catch fire | H251 |
| **2** | **Warning** | Self-heating in large quantities; may catch fire | H252 |

A1.12 Substances and mixtures, which in contact with water, emit flammable gases (see Chapter 2.12 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Substances and mixtures, which in contact with water, emit flammable gases** | **1** | **4.3** |  | https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/bleu4_noir.gif  **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\bleu4.tifor** | **Danger** | In contact with water releases flammable gases which may ignite spontaneously | H260 |
| **2** | **Danger** | In contact with water releases flammable gases | H261 |
| **3** | **Warning** |

A1.13 Oxidizing liquids (see Chapter 2.13 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Oxidizing liquids** | **1** | **5.1** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\jaune5-1.tif** | **Danger** | May cause fire or explosion; strong oxidizer | H271 |
| **2** | **Danger** | May intensify fire; oxidizer | H272 |
| **3** | **Warning** |

A1.14 Oxidizing solids (see Chapter 2.14 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Oxidizing solids** | **1** | **5.1** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\jaune5-1.tif** | **Danger** | May cause fire or explosion; strong oxidizer | H271 |
| **2** | **Danger** | May intensify fire; oxidizer | H272 |
| **3** | **Warning** |

A1.15 Organic peroxides (see Chapter 2.15 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Organic peroxides** | **Type A** | **5.2**  **Type A** |  | *(Transport may not be allowed)b* | **Danger** | Heating may cause an explosion | H240 |
| **Type B** | **5.2**  **Type B** | **and** | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\5-2red.tif**https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/5-2red_noir.gif  **or**  **and if applicable a:** | **Danger** | Heating may cause a fire or explosion | H241 |
| **Types  C and D** | **5.2**  **Types  C and D** |  | https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/5-2red_noir.gif**Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\5-2red.tif**  **or** | **Danger** | Heating may cause a fire | H242 |
| **Types  E and F** | **5.2**  **Types  E and F** | **Warning** |
| **Type G** | **Type G** | *No pictogram* | *Not applicable* | *No signal word* | *No hazard statement* | *None* |

a *Under the UN Model Regulations, where a Type B substance or mixture has an explosive subsidiary hazard, then the transport pictogram for Divisions 1.1, 1.2 or 1.3 shall also be used without the indication of the division number or the compatibility group. For a substance or mixture of hazard category Type B, special provision 181 may apply (Exemption of explosive label with competent authority approval. See Chapter 3.3 of the UN Model Regulations for more details).*

b *May not be acceptable for transport in the packaging in which it is tested (See 2.5.3.2.2 of the UN Model Regulations).*

A1.16 Corrosive to metals (see Chapter 2.16 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement code** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Corrosive to metals** | **1** | **8** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\acide.tif** | **Warning** | May be corrosive to metals | H290 |

A1.17 Desensitized explosives (see Chapter 2.17 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or divisiona** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Desensitized explosives** | **1** | **3**  **or**  **4.1** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\rouge3.tif**https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/rouge3_noir.gif  **or**  **or**  **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\stripes.tif** | **Danger** | Fire, blast or projection hazard; increased risk of explosion if desensitizing agent is reduced | H206 |
| **2** | **Danger** | Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced | H207 |
| **3** | **Warning** |
| **4** | **Warning** | Fire hazard; increased risk of explosion if desensitizing agent is reduced | H208 |

a *Under the UN Model Regulations, liquid desensitized explosives are classified in Class 3 and solid desensitized explosives are classified in Division 4.1.*

A1.18 Acute toxicity (see Chapter 3.1 for classification criteria)

| **Classification** | | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | | **UN Model Regulations class or divisiona** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Acute toxicity** | **1, 2** | **Oral** | **2.3**  **or**  **6.1** |  | https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/TDGpictograms/skull_2.gif  **or**  **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\skull6.tif** | **Danger** | Fatal if swallowed | H300 |
| **Dermal** | Fatal in contact with skin | H310 |
| **Inhalation** | Fatal if inhaled | H330 |
| **3** | **Oral** | **Danger** | Toxic if swallowed | H301 |
| **Dermal** | Toxic in contact with skin | H311 |
| **Inhalation** | Toxic if inhaled | H331 |
| **4** | **Oral** | *Not applicable* |  | *Not applicable* | **Warning** | Harmful if swallowed | H302 |
| **Dermal** | Harmful in contact with skin | H312 |
| **Inhalation** | Harmful if inhaled | H332 |
| **5** | **Oral** | *No pictogram* | **Warning** | May be harmful if swallowed | H303 |
| **Dermal** | May be harmful in contact with skin | H313 |
| **Inhalation** | May be harmful if inhaled | H333 |

a *Under the UN Model Regulations, toxic gases are classified in Division 2.3 and toxic substances (as defined in the UN Model Regulations) are classified in Division 6.1.*

A1.19 Skin corrosion/irritation (see Chapter 3.2 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Skin corrosion/irritation** | **1,**  **1A, 1B, 1C** | **8** |  | **Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\acide.tif** | **Danger** | Causes severe skin burns and eye damage | H314 |
| **2** | *Not applicable* |  | *Not applicable* | **Warning** | Causes skin irritation | H315 |
| **3** | *No pictogram* | **Warning** | Causes mild skin irritation | H316 |

A1.20 Serious eye damage/eye irritation (see Chapter 3.3 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Serious eye damage/eye irritation** | **1** | *Not applicable* |  | *Not applicable* | **Danger** | Causes serious eye damage | H318 |
| **2/2A** |  | **Warning** | Causes serious eye irritation | H319 |
| **2B** | *No pictogram* | **Warning** | Causes eye irritation | H320 |

A1.21 Respiratory sensitization (see Chapter 3.4 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Respiratory sensitization** | **1,**  1A, 1B | *Not applicable* |  | *Not applicable* | **Danger** | May cause allergy or asthma symptoms or breathing difficulties if inhaled | H334 |

A1.22 Skin sensitization (see Chapter 3.4 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Skin sensitization** | **1,**  1A, 1B | *Not applicable* |  | *Not applicable* | **Warning** | May cause an allergic skin reaction | H317 |

A1.23 Germ cell mutagenicity (see Chapter 3.5 for classification criteria)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Germ cell mutagenicity** | **1,**  **1A, 1B** | *Not applicable* |  | *Not applicable* | **Danger** | May cause genetic defects *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | H340 |
| **2** | **Warning** | Suspected of causing genetic defects *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | H341 |

A1.24 Carcinogenicity (see Chapter 3.6 for classification criteria)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Carcinogenicity** | **1,**  **1A, 1B** | *Not applicable* |  | *Not applicable* | **Danger** | May cause cancer *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | H350 |
| **2** | **Warning** | Suspected of causing cancer *(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)* | H351 |

A1.25 Reproductive toxicity (see Chapter 3.7 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Reproductive toxicity** | **1,**  **1A, 1B** | *Not applicable* |  | *Not applicable* | **Danger** | 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)* | H360 |
| **2** | **Warning** | 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)* | H361 |
| **Additional category for effects on or via lactation** | *No pictogram* | *No signal word* | May cause harm to breast-fed children | H362 |

A1.26 Specific target organ toxicity - single exposure (see Chapter 3.8 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Specific  target organ toxicity  –  single exposure** | **1** | *Not applicable* |  | *Not applicable* | **Danger** | 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)* | H370 |
| **2** | **Warning** | 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)* | H371 |
| **3** |  | **Warning** | May cause respiratory irritation | H335 |
| *or* |  |
| May cause drowsiness or dizziness | H336 |

A1.27 Specific target organ toxicity - repeated exposure (see Chapter 3.9 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Specific  target organ toxicity  –  repeated exposure** | **1** | *Not applicable* |  | *Not applicable* | **Danger** | 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)* | H372 |
| **2** | **Warning** | 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)* | H373 |

A1.28 Aspiration hazard (See chapter 3.10 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Aspiration hazard** | **1** | *Not applicable* |  | *Not applicable* | **Danger** | May be fatal if swallowed and enters airways | H304 |
| **2** | **Warning** | May be harmful if swallowed and enters airways | H305 |

A1.29 (a) Hazardous to the aquatic environment, short-term (acute) (see Chapter 4.1 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or divisiona** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Hazardous to the aquatic environment, short-term (Acute)** | **Acute 1** | **9** | Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\Aquatic-pollut-red.gif | C:\Users\DTraynor\AppData\Local\Microsoft\windows\INetCache\Content.Outlook\78KA5FY6\Class 9 (002).gif  **and**  **Description: Beskrivning: https://www.msb.se/Upload/Forebyggande/farligt_gods/Skyltar_etiketter/bmp/Aquatic-pollut-black.bmp** | **Warning** | Very toxic to aquatic life | H400 |
| **Acute 2** | *Not applicable* | *No pictogram* | *Not applicable* | *No signal word* | Toxic to aquatic life | H401 |
| **Acute 3** | Harmful to aquatic life | H402 |

*a Under the UN Model Regulations, for category Acute 1, environmentally hazardous substances are classified under Class 9 and shall bear both the Class 9 transport pictogram and the environmentally hazardous substance transport mark (see Chapter 5.2, section 5.2.1.6 and Chapter 5.3, section 5.3.2.3, of the UN Model Regulations). However, if the environmentally hazardous substance presents any other hazards covered by UN Model Regulations, the Class 9 transport pictogram shall be replaced by the transport pictogram(s) applicable to the hazard(s) present and the environmentally hazardous substance pictogram is not required.*

A1.29 (b) Hazardous to the aquatic environment, long-term (chronic) (see Chapter 4.1 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement codes** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or divisiona** | **GHS pictogram** | **UN Model Regulations pictograma** | **GHS signal word** | **GHS hazard statement** |
| **Hazardous to the aquatic environment, long-term (Chronic)** | **Chronic 1** | **9** | Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\Aquatic-pollut-red.gif | C:\Users\DTraynor\AppData\Local\Microsoft\windows\INetCache\Content.Outlook\78KA5FY6\Class 9 (002).gif**and**  **Description: Beskrivning: https://www.msb.se/Upload/Forebyggande/farligt_gods/Skyltar_etiketter/bmp/Aquatic-pollut-black.bmp** | **Warning** | Very toxic to aquatic life with long lasting effects | H410 |
| **Chronic 2** | *No signal word* | Toxic to aquatic life with long lasting effects | H411 |
| **Chronic 3** | *Not applicable* | *No pictogram* | *Not applicable* | *No signal word* | Harmful to aquatic life with long lasting effects | H412 |
| **Chronic 4** | May cause long lasting harmful effects to aquatic life | H413 |

*a Under the UN Model Regulations, for categories Chronic 1 and 2, environmentally hazardous substances are classified under Class 9 and shall bear both the Class 9 transport pictogram and the environmentally hazardous substance transport mark (see Chapter 5.2, section 5.2.1.6 and Chapter 5.3, section 5.3.2.3, of the UN Model Regulations). However, if the environmentally hazardous substance presents any other hazards covered by UN Model Regulations, the Class 9 transport pictogram shall be replaced by the* *transport pictogram(s) applicable to the hazard(s) present and the environmentally hazardous substance pictogram is not required.*

A1.30 Hazardous to the ozone layer (see Chapter 4.2 for classification criteria)

| **Classification** | | | **Labelling** | | | | **GHS hazard statement code** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **GHS hazard class** | **GHS hazard category** | **UN Model Regulations class or division** | **GHS pictogram** | **UN Model Regulations pictogram** | **GHS signal word** | **GHS hazard statement** |
| **Hazardous to the ozone layer** | **1** | *Not applicable* | Description: Beskrivning: H:\Mina Dokument\KemI Internationellt\GHS\Pictograms\exclam.tif | *Not applicable* | **Warning** | Harms public health and the environment by destroying ozone in the upper atmosphere | H420 |

”

Annex 3, Section 2, table A3.2.2

P203, hazard class “Flammable gases”, column (4)

Replace by:

| 1A | Chemically unstable gas A |
| --- | --- |
| Chemically unstable gas B |

*(Reference document: ST/SG/AC.10/C.4/74)*

**P210, P377, P381 and P403, hazard class “Flammable gases”, column (4)**

Replace by:

| 1A | Flammable gas |
| --- | --- |
| Pyrophoric gas |
| Chemically unstable gas A |
| Chemically unstable gas B |
| 1B, 2 | |

*(Reference document: ST/SG/AC.10/C.4/74)*

P222 and P280, hazard class “Flammable gases”, column (4)

Before “Pyrophoric gas”, insert “1A,”.

*(Reference document: ST/SG/AC.10/C.4/74)*

**P230**

* In column (2), replace: “Keep wetted with…” by “Keep diluted with…:”
* For the explosives hazard class (divisions 1.1, 1.2, 1.3 and 1.5), replace the “Conditions for use” in column (5) with the following:

*“- 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.*

…Manufacturer/supplier or competent authority to specify appropriate material*.”.*

*(Reference document: ST/SG/AC.10/C.4/76)*

Annex 3, Section 3, matrix of precautionary statements

Explosives (divisions 1.1, 1.2, 1.3 and 1.5) and desensitized explosives (categories 1, 2, 3 and 4), under “Prevention”, wording of precautionary statement P230

Replace with:

*“***Keep diluted with…**

*- 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.*

…Manufacturer/supplier or competent authority to specify appropriate material*.”*

*(Reference document: ST/SG/AC.10/C.4/76)*

Annex 4

A4.3.9 Amend the heading of section 9 to read “Physical and chemical properties”.

*(Reference document: ST/SG/AC.10/C.4/76)*

1. \* 2020 (A/74/6 (Sect.20) and Supplementary, Subprogramme 2). [↑](#footnote-ref-2)