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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

Sixteenth session
Geneva, 10-12 (a.m) December 2008
Item 2 of the provisional agenda

**UPDATING OF THE SECOND REVISED EDITION OF THE GLOBALLY HARMONIZED
SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS)**

Draft amendments to the second revised edition of the GHS

Addendum

Note by the secretariat

1. This document contains proposed corrections and additional amendments to the list of amendments to the second revised edition of the GHS (ST/SG/AC.10/C.4/2008/14). It also contains proposals for consequential amendments to other paragraphs of the GHS which are not listed in ST/SG/AC.10/C.4/2008/14.
2. The Sub-Committee is invited to consider the corrections and amendments proposed hereafter.

Amendments to chapter 1.2

Add the following consequential amendments to the list in -2008/14:

Amend the definition of NOEC to read as follows:

“NOEC (No observed effect concentration), the test concentration immediately below the lowest tested concentration with statistically significant adverse effect. The NOEC has no statistically significant adverse effect compared to the control.”.

(Justification: see new definitions in 4.1.1.1).

Insert, in alphabetical order, the following new definitions:

“EC_x , the concentration associated with x% response.

(Justification: see new definitions in 4.1.1.1). .

“Montreal Protocol”, the Montreal Protocol on Substances that Deplete the Ozone Layer as adjusted and amended by the [meetings of the Parties].

(Justification: see amendments to chapter 4.2).

“Ozone Depleting Potential (ODP), an integrative quantity, distinct for each halocarbon source species, that represents the extent of ozone depletion in the stratosphere expected from the halocarbon on a mass-for-mass basis relative to CFC-11. The formal definition of ODP is the ratio of integrated perturbations to total ozone, for a differential mass emission of a particular compound relative to an equal emission of CFC-11.”.

(Justification: see amendments to chapter 4.2).

Amendments to Chapter 2.4

The Sub-Committee is invited to consider placing the new note immediately after the definition of “oxidizing gas” in 2.4.1 of the GHS and deleting the current note under table 2.4.1. In that case, the amendment to chapter 2.4 in document ST/SG/AC.10/C.4/2008/14 should be replaced by the following:

2.4.1 Add the following note after the definition of “oxidizing gas”:

“NOTE: “Gases which cause or contribute to the combustion of other material more than air does” means pure gases or gas mixtures with an oxidizing power greater than 23.5% as determined by a method specified in ISO 10156:1996 or 10156-2:2005.”.

2.4.2 Delete the note after table 2.4.1.”.

Amendments to Chapter 2.6

2.6.4.2.2 (c) Replace “component” with “ingredient”.

2.6.4.2.5 Insert the following amendment:

“For the French standards, amend the address after “AFNOR” to read as follows:
“11, rue de Pressensé. 93571 La Plaine Saint-Denis Cedex”.

(Justification: New address)

Amendments to Chapter 4.1¹

4.1.1.1 Amend the definitions of “Acute (short-term) hazard”, “ECx”, “Long-term hazard” and “NOEC” to read as follows:

“*Acute (short-term) hazard*, for classification purposes, means the hazard of...”.

“*ECx*” means the concentration...”.

“*Long-term hazard*, for classification purposes, means the hazard of...”.

“*No Observed Effect Concentration (NOEC)* means the test concentration...”.

(Justification: the proposed amendments will allow the alphabetical listing of the terms and will ensure the consistency with the wording used in current definitions).

4.1.1.2.1 (d) (refer to the text of chapter 4.1 reproduced in INF.4)
The corrections do not apply to the English version.

4.1.1.6.1 and 4.1.1.6.2 (refer to the text of chapter 4.1 reproduced in INF.4)
The corrections do not apply to the English version.

4.1.1.7.2 and 4.1.1.7.3 (refer to the text of chapter 4.1 reproduced in INF.4)
Delete the last sentence of 4.1.1.7.2 (“For instance... No.29”) and of 4.1.1.7.3 (“(As noted above, Annex 10 is subject to validation)”) and merge both paragraphs into one unique paragraph 4.1.1.7.2.

As a consequence, current paragraph 4.1.1.7.4 becomes new paragraph 4.1.1.7.3.

(Justification: The last sentences in 4.1.1.7.2 and in 4.1.1.7.3 refer to the validation of Annex 10. Since the validation has now been completed, this reference is now irrelevant. See also proposed amendments to 4.1.2.12.2 in this document).

¹ *Note by the secretariat: The full text of Chapter 4.1 (as amended in accordance with ST/SG/AC.10/C.4/2008/14 and including the additional amendments and corrections proposed in this document) is circulated as UN/SCEGHS/16/INF.4.*

- 4.1.2.1 Delete “for substances” at the beginning of the first sentence.
(Justification: Consequential amendment to the insertion of a new phrase concerning substances at the end of the sentence).
- Figure 4.1.1 In the second box on the right hand side, delete “(short-term)”.
(Justification: See new definitions in 4.1.1.1).
- 4.1.2.5 (refers to the text of chapter 4.1 reproduced in INF.4)
In the second sentence, replace “chronic hazard” with “long-term hazard”.
(Justification: See new definitions in 4.1.1.1).
- 4.1.2.7 (refers to the text of chapter 4.1 reproduced in INF.4)
In the third sentence, replace “short-term toxicity” with “acute toxicity”.
(Justification: See new definitions in 4.1.1.1).
- 4.1.2.12.2 (refers to the text of chapter 4.1 reproduced in INF.4)
Delete the last sentence.
(Justification: The validation process is completed. See also proposed amendments to 4.1.1.7.2 and 4.1.1.7.3 in this document).
- 4.1.2.14 In Note 2 to table 4.1.2, in the first sentence, replace “long-term toxicity data” with “chronic toxicity data”.
Note 3, replace “long-term toxicity” with “chronic toxicity”.
(Justification: See new definitions in 4.1.1.1).
- 4.1.3.3.1 In the last sentence, replace “(see decision logic 4.1.5.2.2 and paragraphs 4.1.3.4 and 4.1.3.5)” with “(see paragraphs 4.1.3.4 and 4.1.3.5 and decision logic 4.1.5.2.2)”.
(Justification: It is recommended that those responsible for classification study the criteria before using the decision logics).
- 4.1.3.4 (refers to the text of chapter 4.1 reproduced in INF.4)
In the title, insert “toxicity” before “data”.
(Justification: see amendment to the heading of 4.1.3.3 and current text in the decision logics).
- 4.1.3.5.2 At the end of the first sentence, insert “toxicity” before “test data”.
(Justification: see amendment to the heading of 4.1.3.3 and current text in the decision logics).
In the sentence preceding the formula under sub-paragraph (a), insert “acute” before “aquatic toxicity”.

(Justification: Refer to the last sentence under (a) "... to assign that portion of the mixture an acute hazard category..." and to the sentence preceding the formula under sub-paragraph (b)).

In (b), for NOEC_i and NOEC_j, replace "long-term toxicity" with "chronic toxicity".

(Justification: See new definitions in 4.1.1.1).

4.1.3.5.3 (refers to the text of chapter 4.1 reproduced in INF.4)

In the second sentence, replace "same species" with "same taxonomic group".

(Justification: See amendment to the first sentence of the same paragraph).

4.1.3.5.5.3, 4.1.3.5.5.3.2, 4.1.3.5.5.3.3, 4.1.3.5.5.3.4, heading of table 4.1.3, 4.1.3.5.5.4.2, 4.1.3.5.5.4.3, 4.1.3.5.5.4.4, 4.1.3.5.5.4.5, heading of table 4.1.4 and decision logic 4.1.1 (refer to the text of chapter 4.1 reproduced in INF.4)

Replace "sum of... ingredients classified" by "sum of the concentrations (in %) of... ingredients classified".

(Justification: See amendment to the first sentence of 4.1.3.5.5.4.1).

4.1.3.5.5.5 (refers to the text of chapter 4.1 reproduced in INF.4)

In the third sentence, replace "Table 4.1.2" and "Table 4.1.3" with "Table 4.1.3" and "Table 4.1.4" respectively.

4.1.3.6 (refers to the text of chapter 4.1 reproduced in INF.4)

In the first sentence, replace "chronic aquatic hazard" with "chronic aquatic toxicity".

4.1.5.1.2 Amend the title to read as follows: "Decision logic 4.1.2 for mixtures (additivity formula)".

(Justification: Consistency with the titles of similar decision logics)

4.1.5.2 In the title, insert "hazard" after "aquatic".

(Justification: Consistency with the title of 4.1.5.1)

4.1.5.2.1 In the title, delete "Mixtures".

In the sentence starting with "Are there acute (short-term) toxicity data available", delete "(short-term)".

(Justification: see new definitions in 4.1.1.1).

4.1.5.2.1.1 (decision logic 4.1.3 (b)) Replace paragraph number "4.1.5.2.1.1" with "4.1.5.2.2".

4.1.5.2.4 (decision logic 4.1.4) Amend the text on the last but one box on the right hand side to read as follows:

“Apply summation method (see 4.1.3.5.5) using the concentrations (in %) of ingredients classified as chronic or, if absent, acute, and classify the mixture for long-term hazard”.

(Justification: See 4.1.3.5.5).

In footnote 9, at the beginning of the first sentence replace “test of mixtures” with “tests for mixtures”.

(Justification: See last sentence in 4.1.3.3.2).

In footnote 10, amend the first sentence to read as follows:

“In the event that no useable information on acute and/or chronic aquatic toxicity is available for one or more relevant ingredients, it is concluded that the mixture cannot be attributed (a) definitive hazard category(ies).”.

(Justification: See 4.1.3.6).

In footnote 11:

- Amend the first sentence to read as follows:

“When adequate toxicity data are available for more than one ingredient in the mixture, the combined toxicity of those ingredients may be calculated using the additivity formulas (a) or (b) in 4.1.3.5.2, depending on the nature of the toxicity data”.

(Justification: see amendments to the second sentence of 4.1.3.5.2).

- In the second sentence, insert “or long-term” after “acute”;

(Justification: see last paragraph under 4.1.3.5.2 (b)).

- In the last sentence, replace “species-group” with “taxonomic group” and “the most sensitive of the groups” with “the most sensitive of the three groups”.

(Justification: see amendments to 4.1.3.5.3).

Amendments to chapter 4.2

4.2.1 In the definition of “Montreal Protocol”, replace “amended by the meetings of the Parties” with “amended by the Parties to the Protocol”.

4.2.2 Table 4.2.1, under Criteria:

Replace “listed in Annexes of the Montreal Protocol” with “listed in the Annexes to the Montreal Protocol”.

Replace “ingredient classified as hazardous to the ozone layer” with “ingredient listed in the Annexes to the Montreal Protocol”.

(Justification: see criteria for substances).

Text of footnote 1: replace “classification and labelling does not apply” with “classification and labelling criteria do not apply”.

4.2.4 In the title, replace “ozone depleting substances and mixtures” with “hazardous to the ozone layer”

(Justification: Consistency with other headings in the chapter).

Replace “Decision logic 4.1.1” with “Decision logic 4.2.1”.

In the decision logic:

- Replace “Is the substance mentioned in Annexes of the Montreal Protocol?” with “Is the substance listed in the Annexes to the Montreal Protocol?”.
- Replace “classified as hazardous to the ozone layer” with “listed in the Annexes to the Montreal Protocol”.

(Justification: see amendments to 4.2.2).

Amendments to Annex 2

A2.29 Under the heading Criteria:

In paragraph 1, replace “listed in Annexes of the Montreal Protocol” with “listed in the Annexes to the Montreal Protocol”.

In paragraph 2, replace “classified as hazardous to the ozone layer at” with “listed in the Annexes to the Montreal Protocol, at”.

(Justification: see amendments to 4.2.2).

Amendments to Annex 9

A9.3.3.2.3 (former A9.3.3.2.2) In the sixth sentence, replace “Thus, if a classification has been applied based on a fish acute LC₅₀” with “Thus, if a classification is based on a fish acute LC₅₀”.

A9.2.4.4 (former A9.2.4.3) In the new last sentence, replace “appropriate long-term hazard class” with “appropriate long-term hazard category”.
