

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

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Item 3 (f) of the provisional agenda

**Classification criteria and related hazard communication:
miscellaneous**

Revised terms of reference (refer to ST/SG/AC.10/C.4/2016/7)

Transmitted by the experts from the Netherlands and the United Kingdom

The following terms of reference are proposed:

- (a) Using a step-wise approach, starting with a hazard class to be determined by the informal working group, identify and evaluate¹, relative to existing accepted *in vivo* test methods:
 - (i) The existing guidance on *in silico*, including grouping approaches, QSARs and read-across, that could be useful for GHS hazard classification for health hazard and environmental (i.e., aquatic toxicity) hazard classes, including their limitations and uncertainties; and
 - (ii) The available *in vitro* and *in chemico* test methods, validated at the international level (e.g., OECD, ICATM, etc.), that could be used for GHS hazard classification, for health hazard and environmental hazard classes, including their applicability domains, limitations (such as accuracy, sensitivity, specificity) and expected future developments.
- (b) For each relevant GHS hazard class and category, assess:
 - (i) Where substances and mixtures may be classified using *in silico*, taking into account all relevant scientific information; and whether new or amended GHS classification criteria are needed to facilitate the use of such methods for hazard classification, and
 - (ii) Where the results of validated *in vitro* or *in chemico* test methods can be used for hazard classification of substances and mixtures, and whether new or amended GHS classification criteria are needed to facilitate the use of such methods, or combinations of methods including *in silico*, whether in an integrated or tiered evaluation approach which takes into account all relevant scientific information for hazard classification.

¹ It is not foreseen to have a complete evaluation of all existing guidance or to cover all new developments. The work by the informal working group should focus on relevant information in relation the possible amendments or additions to GHS classification.

- (c) Prepare draft amendments and additions to the GHS to facilitate hazard classification using grouping and *in vitro*, *in silico* or *in chemico* approaches, where appropriate and considering relevant limitations and uncertainties. They should include as appropriate classification criteria, notes, decision logic, tiered evaluation and guidance, and should take into account the needs of all sectors. The proposed changes should provide, so far as possible, a consistent approach across the different hazard classes. If appropriate, suggestions for further developments of read across and *in vitro*, *in silico* or *in chemico* approaches should be given.
- (d) Report progress to the GHS Sub-Committee as appropriate.
