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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Classification criteria and related hazard communication:
other issues

Revisions to proposed amendments to Chapter 2.3 to convert decision logics into text language

Transmitted by the expert from the United States of America

Introduction

- 1. This paper builds on the amendments to Chapter 2.3 as proposed in ST/SG/AC.10/C.4/2018/9 "Proposed amendments to chapter 2.3 to convert decision logics into text language."
- 2. This paper proposes that the criteria listed in Table 2.3.1 be:
 - (a) Expressed as symbols (e.g., " \leq " and " \geq "), instead of as written text. This provides a clear distinction of the relevant cut-offs. In addition, expressing the criteria as symbols is consistent with how the criteria are provided in other GHS chapters (e.g., Chapters 2.6, 2.7, 3.1 3.10).
 - (b) Identified in a bulleted/numbered format. This would provide consistency in the GHS, as it follows the same structure as other chapters that have alternate criteria within a single category (e.g., Chapters 2.8, 2.11, 2.15, 2.17).

Proposal

- 3. The proposed amendments to Table 2.3.1 are presented in Annex I of this document. Text to be deleted is provided in **red** bold strikethrough and new text is provided in **red** bold underline.
- 4. Annex II provides a clean version of the proposed amendments.

Annex I

Table 2.3.1 Criteria for aerosols

<u>Category</u>	<u>Criteria</u>
1	 Any aerosol that contains ≥ at least 85% flammable components (by mass) and has a heat of combustion of ≥ at least 30 kJ/g; or Any aerosol that dispenses a spray that, in the ignition distance test, has an ignition distance of ≥ at least 75 cm; or Any aerosol that dispenses a foam that, in the foam flammability test, has a flame height of ≥ at least 20 cm and a flame duration of ≥ at least 2 s, or a flame height of ≥ at least 4 cm and a flame duration of ≥ at least 7 s.
2	 1) Any aerosol that dispenses a spray that, based on the results of the ignition distance test, does not meet the criteria for Category 1, and which has a) a heat of combustion of ≥ at least 20 kJ/g, or b) a heat of combustion of < less than 20 kJ/g along with an ignition distance of ≥ at least 15 cm, or c) a heat of combustion of < less than 20 kJ/g and an ignition distance of < less than 15 cm along with either, in the enclosed space ignition test, ○ a time equivalent of ≤ 300 s/m³ or less, or ○ a deflagration density of ≤ 300 g/m³ or less; or 2) Any aerosol that dispenses a foam that, based on the results of the aerosol foam flammability test, does not meet the criteria for Category 1, and which has a flame height of ≥ at least 4 cm and a flame duration of ≥ at least 2 s.
<u>3</u>	 Any aerosol that contains ≤ 1% or less flammable components (by mass) and that has a heat of combustion < below 20 kJ/g; or Any aerosol that contains > more than 1% (by mass) flammable components or which has a heat of combustion of ≥ at least 20 kJ/g but which, based on the results of the ignition distance test, the enclosed space ignition test or the aerosol foam flammability test, does not meet the criteria for Category 1 or Category 2.

Annex II

Table 2.3.1: Criteria for aerosols

<u>Category</u>	<u>Criteria</u>
1	 Any aerosol that contains ≥ 85% flammable components (by mass) and has a heat of combustion of ≥ 30 kJ/g; or
	 Any aerosol that dispenses a spray that, in the ignition distance test, has an ignition distance of ≥ 75 cm; or
	3) Any aerosol that dispenses a foam that, in the foam flammability test, has
	c) a flame height of ≥ 20 cm and a flame duration of \geq 2 s, or
	d) a flame height of ≥ 4 cm and a flame duration of ≥ 7 s
2	Any aerosol that dispenses a spray that, based on the results of the ignition distance test, does not meet the criteria for Category 1, and which has
	d) a heat of combustion of $\geq 20 \text{ kJ/g}$, or
	e) a heat of combustion of < 20 kJ/g along with an ignition distance of ≥ 15 cm, or
	f) a heat of combustion of < 20 kJ/g and an ignition distance of < 15 cm along with either, in the enclosed space ignition test,
	○ a time equivalent of $\leq 300 \text{ s/m}^3$, or
	○ a deflagration density of $\leq 300 \text{ g/m}^3$; or
	2) Any aerosol that dispenses a foam that, based on the results of the aerosol foam flammability test, does not meet the criteria for Category 1, and which has a flame height of ≥ 4 cm and a flame duration of ≥ 2 s.
3	 Any aerosol that contains ≤ 1% flammable components (by mass) and that has a heat of combustion < 20 kJ/g; or
	2) Any aerosol that contains > 1% (by mass) flammable components or which has a heat of combustion of ≥ 20 kJ/g but which, based on the results of the ignition distance test, the enclosed space ignition test or the aerosol foam flammability test, does not meet the criteria for Category 1 or Category 2.

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