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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 Transport of Dangerous Goods

#### Fifty-seventh session

Geneva, 30 November-8 December 2020

Item 2 (b) (iii) of the provisional agenda

**Recommendations made by the Sub-Committee at its  
fifty-fifth and fifty-sixth sessions and pending issues:  
explosives and related matters: review of tests in  
parts I, II and III of the Manual of Tests  
and Criteria**

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

#### Thirty-ninth session

Geneva, 9-11 December 2020

Item 3 (a) of the provisional agenda

**Classification and labelling criteria and related hazard  
communication: work of the Sub-Committee of Experts  
on the Transport of Dangerous Goods (TDG) on  
matters of interest to the GHS Sub-Committee**

## Manual of Tests and Criteria, review of Test Series H: determination of self-accelerating decomposition temperature

**Transmitted by the Chairman of the Working Group on Explosives\***

### Introduction

1. The outcome of the work of the International Group of Experts on the Unstable and Energetic Substances (IGUS), working group Energetic and Oxidizing Substances (EOS), ad-hoc working group on revision of test series H was submitted for discussion and, if comments allowed, adoption at the fifty-seventh session as document ST/SG/AC.10.C.3/2020/3-ST/SG/AC.10.C.4/2020/4. On the workspace that was created to allow for comments a number of delegations expressed their support for the proposal. One country also gave some, mainly editorial, comments to further improve the proposal.
2. One of the comments dealt with the inconsistent way that the units of various properties were expressed. For example, temperature was expressed as “C” and as “K” and the notation of mass and temperature was inconsistent: “kg K” and “(K kg)”. The revisions proposed in this document are aimed at a consistent use of the units and to incorporate the editorial amendments raised.
3. The proposals give amendments to working document ST/SG/AC.10/C.3/2020/3-ST/SG/AC.10/C.4/2020/4. Some comments involved text that was not in the mentioned working document. Those amendments are listed separately and they refer to section 28 of the Manual.

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\* 2020 (A/74/6 (Sect.20) and Supplementary, Subprogramme 2).

4. The Sub-Committee is invited to study, comment on and, if the proposals are acceptable, adopt working document ST/SG/AC.10/C.3/2020/3-ST/SG/AC.10/C.4/2020/4 as amended by this document.

## Proposal

5. Amend working document .../C.3/2020/3 (.../C.4/2020/4) as follows:
- 28.3.5 in the fifth paragraph (that starts with “Replace”) second line: delete the word “the” before “heat transfer through the packaging to the environment”.
- 28.4.2.1.2 in the penultimate sentence at the end amend the unit for L to read “mW/K.kg”.
- 28.4.2.3.1 in (a) (ii): place “e.g. 0.333 W of 1.000 W” between parenthesis and delete the commas before and after.
- in (b) (ii): amend the unit of the heat loss to read “60 mW/K.kg”.
- 28.4.2.3.2 in (c): in the second paragraph (that starts with “For the closed version”), first line, insert a space between “<” and “0.5 W/kg”.
- 28.4.2.5 Table: amend the units in the heading of the fourth column to read “mW/K.kg”.
- Fig. 28.4.2.2: in the legend, amend the units Heat loss curve L to read “W/K.kg”.
- 28.4.3.5 Table: amend the units in the heading of the fourth column to read “mW/K.kg”.
- Fig. 28.4.3.2: in the legend, amend the units Heat loss curve L to read “W/K.kg”.
- 28.4.4.2.8 amend the first sentence to read: “... with a liquid substance, with a heat loss as given in Table 28.4. For larger packages, IBCs or small tanks larger Dewar vessels with lower heat loss per unit mass should be used (see Table 28.4).”
- 28.4.4.5 Table: amend the units in the heading of the fourth column to read “mW/K.kg”.
6. Amend Section 28 of the Manual of Tests and Criteria as follows:
- Table 28.1 amend the name of the test H.1 to read: “United States SADT/SAPT test”.
- 28.4.1 amend the name of the test to read: “United States SADT/SAPT test”.
- 28.4.2.4.2 for “A” and “B” replace the units by “K/h” and for Cp1 with “J/K.kg”.
- 28.4.2.4.4 replace the unit of Cp2 by “J/K.kg” and for “C” with “K/h”.
- 28.4.2.4.5 replace the unit for “D” with “K/h”.
- 28.4.2.4.6 in the second sentence, replace the unit of “L” by “W/K.kg”.
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