UN/SCEGHS/36/INF.44

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

6 December 2018

Thirty-sixth session
Geneva, 5-7 December 2018
Item 4 (d) of the provisional agenda
Hazard communication: other issues

Corrections to Annex 4 Section 9 "Physical and chemical properties and safety characteristics" – Revision of ST/SG/AC.10/C.4/2018/27

Transmitted by the expert from Germany and Sweden

- 1. Currently, the revised Section 9 for the Safety Data Sheets (SDS) (which was introduced in the GHS with the sixth revised edition from 2015) is implemented in Europe in Annex II to the Regulation (EC) No 1907/2006 of the European parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). In the course of this work, it was found that the equations in two entries are formally not correct. These mistakes concern proper statement of units only and do not compromise the outcome. However, the equations should also be formally correct. Furthermore, at one place the word energy was used instead of the word temperature and should be corrected.
- 2. The Sub-Committee is requested to consider the proposals as shown in paragraph
- 3, 4 and 5. Additions are **bold underlined**, deletions are striken through.

3. In Table A4.3.9.1 in the entry "Vapour pressure" correct the sixth indent as follows:

Vapour pressure ... - the saturated vapour concentration (SVC) in ml/m³ or in g/m³ (=mg/l) may be indicated in addition. The saturated vapour concentration can be estimated as follows: \[\frac{\text{SVC (in ml/m³}}{\text{SVC (in mg/l)}} = \text{VP(in hPa} = \text{mbar}) \cdot \text{987.2} \] \[\frac{\text{SVC in ml/m³:}}{\text{SVC in ml/m³:}} \frac{\text{SVC}}{\text{SVC}} = \text{VP} \cdot \text{c1} \] \[\frac{\text{SVC in g/m³:}}{\text{SVC}} = \text{VP} \cdot \text{MW} \cdot \text{c2} \] where • \(VP \) is the vapour pressure \(\frac{\text{in hPa} (=\text{mbar})}{\text{m}} \) • \(MW \) is the molecular weight \(\frac{\text{in g/mol and}}{\text{m}} \) • \(\text{c1 and c2 are conversion factors where c1} = 987.2 \) \[\frac{\text{ml}}{\text{m}^3 \cdot \text{hPa}} \) and \(\text{c2} = 0.0412 \) \[\frac{\text{mol}}{\text{m}^3 \cdot \text{hPa}} \]

4. In Table A4.3.9.1 in the entry "Relative vapour density" correct the fourth indent as follows:

Relative vapour	
density	for liquids, the relative density $\underline{\mathbf{D}_m}$ of the vapour/air-mixture at 20 °C (air = 1) may be indicated in addition. It can be calculated as follows:
	$D_{m} = 1 + (34 \cdot VP_{20} \cdot 10^{-6} \cdot (MW - 29))$
	$D_m = 1 + (VP_{20} \cdot (MW - 29 \text{ g/mol}) \cdot \text{c3})$
	where
	■ D _m is the relative density of the vapour/air mixture at 20 °C
	• VP ₂₀ is the vapour pressure at 20 °C in <u>hPa (=</u> mbar <u>)</u>
	• MW is the molecular weight in g/mol
	• c3 is a conversion factor, $c3 = 34 \cdot 10^{-6} \frac{\text{mol}}{\text{g·hPa}}$

____5. In Table A4.3.9.2 in the entry for chapter 2.8 "Self-reactive substances and mixtures" correct the first indent as follows:

2.3	_	_	- for the SADT (self-accelerating decomposition temperature), see the entry for the
		substances and	decomposition energy temperature in Table A4.3.9.1
		mixtures	