

**Economic and Social Council**Distr.: General  
16 June 2023

Original: English

---

**Economic Commission for Europe****Inland Transport Committee****Working Party on the Transport of Dangerous Goods****Joint Meeting of the RID Committee of Experts and the  
Working Party on the Transport of Dangerous Goods**

Geneva, 19–29 September 2023

Item 4 of the provisional agenda

**Harmonization with the United Nations Recommendations  
on the Transport of Dangerous Goods****Report of the Ad Hoc Working Group on the Harmonization  
of RID/ADR/ADN with the United Nations  
Recommendations on the Transport of Dangerous Goods**

Note by the secretariat\*,\*\*

**I. General**

1. The Ad Hoc Working Group on the Harmonization of RID/ADR/ADN with the United Nations Recommendations on the Transport of Dangerous Goods met in Geneva on 26 and 27 April 2023 under the chairmanship of Mrs. S. Garcia Wolfrum (Spain).
2. Representatives of Belgium, France, Germany, Netherlands, Spain, Sweden, Switzerland, United Kingdom, the Central Commission for the Navigation of the Rhine (CCNR) and the Intergovernmental Organisation for International Carriage by Rail (OTIF) participated in the session.
3. The session was held in English, without interpretation. The documentation was issued as informal documents which were made available on the website of the UNECE Sustainable Transport Division as follows:

ECE/TRANS/WP.15/AC.1/HAR/11

Provisional agenda for the eleventh  
session (Secretariat)

ECE/TRANS/WP.15/AC.1/HAR/2023/1

Harmonization with the United Nations  
Model Regulations on the Transport of  
Dangerous Goods (Secretariat)

ECE/TRANS/WP.15/AC.1/HAR/2023/2/Rev.1 Articles and packing groups (Spain)

\* A/77/6 (Sect. 20), table 20.6.

\*\* Circulated by the Intergovernmental Organisation for International Carriage by Rail (OTIF) under the symbol OTIF/RID/RC/2023/23.



ECE/TRANS/WP.15/AC.1/HAR/2023/3/Rev.1	Degree of filling and filling ratio (Spain)
ECE/TRANS/WP.15/AC.1/HAR/2023/4	Harmonization with the United Nations Model Regulations on the Transport of Dangerous Goods – Comments on ECE/TRANS/WP.15/AC.1/HAR/2023/1 (Sweden)
Informal document INF.11 of the 2023 Spring session of the RID/ADR/ADN Joint Meeting	Interpretation of capacity to determine the maximum degree of filling according to 4.1.1.4 (Belgium)

4. The background documents were the report of the United Nations Economic and Social Council's Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals and annexes thereto, circulated by the secretariat as documents ST/SG/AC.10/50 and Add.1-3.

5. The Ad Hoc Working Group adopted the provisional agenda prepared by the secretariats.

## **II. Harmonization of RID/ADR/ADN with the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations**

6. The Ad Hoc Working Group (hereafter referred to as the "Working Group") examined the draft amendments and comments in documents ECE/TRANS/WP.15/AC.1/HAR/2023/1 to ECE/TRANS/WP.15/AC.1/HAR/2023/4. The amendments proposed by the Working Group are reproduced in the addendum to this report (ECE/TRANS/WP.15/AC.1/2023/23/Add.1). Some texts were placed between square brackets pending a decision by the Joint Meeting or feedback from other intergovernmental bodies.

7. The Working Group agreed that the comments below, providing the rationale behind some of the recommendations made by the Working Group, should be brought to the attention of the Joint Meeting or the Sub-Committee of Experts on the Transport of Dangerous Goods (TDG Sub-Committee), as appropriate (ECE/TRANS/WP.15/AC.1/2023/23/Add.1, informal document INF.13 of the sixty-second session of the TDG Sub-Committee<sup>1</sup>).

### **A. Chapter 2.1**

8. The Working Group agreed to clarify the references to lithium metal, lithium ion and sodium ion cells and batteries throughout the whole text. When relevant for the Model Regulations, these will be brought to the attention of the TDG Sub-Committee.

### **B. Chapter 2.2**

9. The Working Group agreed with the secretariat's suggestion that the new Note defining the term "make available" under 2.2.9.1.7.1 (2.9.4 of the Model Regulations) should be amended and also apply for sodium ion batteries and hence be repeated under new 2.2.9.1.7.2 (2.9.5 of the Model Regulations). This will be brought to the attention of the TDG Sub-Committee.

10. The Working Group adopted Sweden's proposal to repeat the current Note under 2.2.9.1.7 (new 2.2.9.1.7.1; 2.9.4 of the Model Regulations) referring to testing requirements of the Manual of Tests and Criteria also under new 2.2.9.1.7.2 (2.9.5 of the Model

---

<sup>1</sup> Available at: <https://unece.org/info/Transport/Dangerous-Goods/events/373851>

Regulations) for sodium ion batteries. This will be brought to the attention of the TDG Sub-Committee.

## **C. Chapter 3.2, Table A**

### **1. UN Nos 1006, 1013, 1046 and 1066**

11. The Working Group adopted the amendments proposed in ECE/TRANS/WP.15/AC.1/HAR/2023/1 and agreed to replace special provision 653 by the new special provision 406 of the Model Regulations to achieve harmonisation. It was noted that this would however result in more stringent conditions for exempting gases of UN Nos. 1006, 1013, 1046 and 1066 in RID/ADR/ADN. Therefore, the Working Group proposed to include a two-year transitional period for the entry into force of this new special provision (see 1.6.2.24).

### **2. Substances for which special provision 28 is assigned in the Model Regulations**

12. The Working Group noted that, during the restructuring of RID/ADR, it was agreed that special provision 28 of the Model Regulations contained general prescriptions valid for all desensitised explosives without exception and that, since this was not the purpose of a special provision, it was not transferred in RID/ADR. Since RID/ADR/ADN did not contain such prescriptions, the Working Group proposed to introduce special provision 28 in the next edition and to apply it to the same substances as for the Model Regulations.

### **3. UN Nos 1391 and 3482, and Tetramethylammonium hydroxide (UN Nos. 1835, 3423 and 3560)**

13. The amendments related to the carriage in RID/ADR tanks were placed in square brackets, subject to further consideration by the Working Group on Tanks at its next meeting. The following comments could be considered by the Working Group on Tanks:

- For UN Nos. 1391 and 3482, T13 is added. For other substances with T13, the RID/ADR tank code is L10DH. For UN Nos. 1391 and 3482, the Working Group on Tanks may wish to consider replacing L10BN(+) by L10DH.
- In 4.3.4.1.2, there are two possible options for tank codes for substances of Class 8, classification code CT1, packing groups II (L4BN/L4DH). The Working Group on Tanks may wish to confirm if this is correct and what would be the appropriate code for the carriage of UN No. 1835, packing groups II in tanks. The Working Group noted that there were also two possible options for tank codes for substances of Class 9, classification code M11 (LGBV, L4BN).

14. Depending on the decisions of the Working Group on Tanks, transitional provisions might be needed. For UN Nos. 1835, 3423 and 3560 (Tetramethylammonium hydroxide) transitional measures for the carriage in tanks have already been proposed by the working group in square brackets (see 1.6.3.62, 1.6.3.63, 1.6.4.66 and 1.6.4.67).

### **4. UN No. 1774**

15. Following the explanation from Spain based on document ECE/TRANS/WP.15/AC.1/HAR/2023/2/Rev.1, the Working Group noted that fire extinguisher charges of UN No. 1774 should not be considered as articles and that the assignment of a packing group to this entry was correct.

### **5. Mixed packing provisions for UN No. 0514 (Fire suppressant dispersing devices)**

16. The Working Group kept mixed packing provisions MP23 and MP24 in square brackets awaiting clarification on how these devices were transported. This question will be brought to the attention of the TDG Sub-Committee.

## **D. Chapter 3.3**

### **1. Special provision 132**

17. For UN No. 3555, the Working Group recommended to adopt packing instruction P303 for RID/ADR but without the additional requirement which was already covered by CW29 in RID. For ADR, it was proposed to add a new provision CV29 in 7.5.11 with the same text as in CW29 and to apply it to the same entries as for RID.

18. The Working Group agreed not to assign special provision 132 of the Model Regulations to UN No. 3555 since it was already covered by CV14 of ADR. For RID, it was proposed to add a new provision CW14 in 7.5.11 with the same text as in CV14 and to apply it to the same entries as for ADR.

### **2. Special provision 401**

19. The Working Group proposed to remove the description of UN No. 2795 in special provision 401 to align with other references to UN numbers in the same special provision. It also proposed to add a reference to batteries containing metallic sodium or sodium alloy in this special provision. This will be brought to the attention of the TDG Sub-Committee.

### **3. Special provision 403**

20. On special provision 403, the Working Group proposed to replace “according to” by “in accordance with”. This editorial modification will be brought to the attention of the TDG Sub-Committee.

### **4. Special provision 405**

21. The Working Group recommended to transfer the text of the new special provision 405 into current RID/ADR/ADN special provision 666 on vehicles and battery powered equipment carried as a load. The wording of the new special provision 405 was improved and this editorial modification will be brought to the attention of the TDG Sub-Committee.

## **E. Chapter 4.1**

### **1. 4.1.4.1, P200, Table 2**

22. The Working Group confirmed that the line for 52 bar test pressure for UN Nos. 1001 and 3374 should not be included in table 2 of packing instruction P200 in RID/ADR and that this was decided by the Joint Meeting during the alignment of P200 with the twelfth revised edition of the Model Regulations (based on TRANS/WP.15/AC.1/2001/32 from EIGA).

### **2. 4.1.1.4, P912 (c)**

23. The Working Group suggested that the wording of packing instruction P912 (c) could be improved. It was not necessary to repeat “the vehicles” since it was already stated in the introductory sentence before the sub-paragraphs. This editorial modification would be brought to the attention of the TDG Sub-Committee.

### **3. Reference to capacity in 4.1.1.4**

24. On the amendments proposed in informal document INF.11 of the spring session of the RID/ADR/ADN Joint Meeting, the Working Group preferred to keep the current text as other consequential amendments might be needed case by case. The representative of Belgium volunteered to review their proposal and to come up with a new document at a future meeting.

## **F. Articles and packing groups**

25. The Working Group agreed on the amendments proposed in ECE/TRANS/WP.15/AC.1/HAR/2023/2/Rev.1 (proposals 1, 3 to 8 except paragraph 41 in proposal 8). For proposal 2 the Working Group preferred not to include a reference to special provision 278 in column (5) of Table A, but to add explanatory text to 3.2.1 (4).

## **G. Degree of filling and filling ratio**

26. The Working Group adopted the amendments proposed in ECE/TRANS/WP.15/AC.1/HAR/2023/3/Rev.1 to harmonize the use of degree of filling and filling ratio, with some modifications. The secretariat of the ADN Safety Committee volunteered to verify the alignment of the ADN. Additional proposed changes to the Model Regulations will be brought to the attention of the TDG Sub-Committee.

## **H. Other amendments proposed to the Model Regulations**

27. The Working Group proposed some further amendments to the Model Regulations, which would be brought to the attention of the TDG Sub-Committee, as follows:

- Insertion of an additional sentence in special provisions 363 and 388 to refer to sodium ion batteries;
- Clarification in special provision 408 and packing instruction P912;
- Editorial amendments to the French version in 2.5.3.2.4 and in special provisions 252, 310, 328, 363, 404, 407).

## **III. Other business**

28. As no document had been submitted, no discussion took place under this agenda item.

## **IV. Adoption of the report**

29. The Working Group adopted the report on its session by correspondence, based on a draft prepared by the secretariats, including the draft amendments to RID/ADR/ADN as listed in ECE/TRANS/WP.15/AC.1/2023/23/Add.1.

---