

**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**

Bern, 13-17 March 2017

Item 5 (b) of the provisional agenda

**Proposals for amendments to RID/ADR/ADN:**

**new proposals**

8 March 2017

**The need to correct Chapters 1, 2, 4, 5, 6**

**Transmitted by the Government of the Russian Federation**

**Introduction**

The analysis of the text of the RID/ADR-2017 has shown that there are separate paragraphs that need to be correct and clarified, since in present form, in our opinion, may lead to an erroneous interpretation or mislead the user of the Rules.

See table data:

	Text of RID-2017	Comment	Proposal																												
1	<p><b>1.1.4.2.3</b> (Reserved)</p> <p><b>NOTE:</b> For carriage in accordance with 1.1.4.2.1, see also 5.4.1.1.7. For carriage in containers, see 5.4.2.</p>	The paragraph is reserved, but there is a note	Delete the brackets. Delete the word "Note". Text of the note to make the text of the paragraph																												
2	<p><b>2.2.7.2.4.6</b> Classification as Type B(U), Type B(M) or Type C packages</p> <p><b>2.2.7.2.4.6.1</b> Packages not otherwise classified in 2.2.7.2.4 (2.2.7.2.4.1 to 2.2.7.2.4.5) shall be classified in accordance with the competent authority certificate of approval for the package issued by the country of origin of design.</p>	In brackets there are subparagraphs included in the main paragraph	Delete paragraph 2.2.7.2.4, open the brackets, write the text as follows: «Packages not otherwise classified in 2.2.7.2.4.1 - 2.2.7.2.4.5...»																												
3	<p><b>2.2.9.1.3</b> Substances and articles classified in Class 9 are listed in Table A of Chapter 3.2. The assignment of substances and articles not mentioned by name in Table A of Chapter 3.2 to the relevant entry of that Table or of 2.2.9.3 shall be done in accordance with 2.2.9.1.4 to 2.2.9.1.14 below.</p>	Reference to items that have been deleted or reserved:	Write the text as follows: «The assignment of substances and articles not mentioned by name in Table A of Chapter 3.2 to the relevant entry of that Table or of 2.2.9.3 shall be done in accordance with 2.2.9.1.4-2.2.9.1.8, 2.2.9.1.10, 2.2.9.1.11, 2.2.9.1.13, 2.2.9.1.14 below.»																												
4	<p><b>2.2.9.1.10.3.2</b> The classification scheme in Table 2.2.9.1.10.3.2 below summarizes the classification criteria for hazardous substances.</p> <p><b>Table 2.2.9.1.10.3.2: Classification scheme for substances hazardous to the aquatic environment</b></p> <table border="1"> <thead> <tr> <th colspan="4">Classification categories</th> </tr> <tr> <th rowspan="3">Acute hazard (see Note 1)</th> <th colspan="2">Long-term hazard (see Note 2)</th> <th rowspan="3">Adequate chronic toxicity data not available (see Note 1)</th> </tr> <tr> <th colspan="2">Adequate chronic toxicity data available</th> </tr> <tr> <th>Non-rapidly degradable substances (see Note 3)</th> <th>Rapidly degradable substances (see Note 3)</th> </tr> </thead> <tbody> <tr> <td><b>Category: Acute 1</b></td> <td><b>Category: Chronic 1</b></td> <td><b>Category: Chronic 1</b></td> <td><b>Category: Chronic 1</b></td> </tr> <tr> <td>L(E)C<sub>50</sub> ≤ 1.00</td> <td>NOEC or EC<sub>x</sub> ≤ 0.1</td> <td>NOEC or EC<sub>x</sub> ≤ 0.01</td> <td>L(E)C<sub>50</sub> ≤ 1.00 and lack of rapid degradability and/or BCF ≥ 500 or, if absent log K<sub>ow</sub> ≥ 4</td> </tr> <tr> <td></td> <td><b>Category: Chronic 2</b></td> <td><b>Category: Chronic 2</b></td> <td><b>Category: Chronic 2</b></td> </tr> <tr> <td></td> <td>0.1 &lt; NOEC or EC<sub>x</sub> ≤ 1</td> <td>0.01 &lt; NOEC or EC<sub>x</sub> ≤ 0.1</td> <td>1.00 &lt; L(E)C<sub>50</sub> ≤ 10.0 and lack of rapid degradability and/or BCF ≥ 500 or, if absent log K<sub>ow</sub> ≥ 4</td> </tr> </tbody> </table> <p><b>NOTE 1:</b> Acute toxicity band based on L(E)C<sub>50</sub> values in mg/l for fish, crustacea and/or algae or for aquatic plants (or Quantitative Structure Activity Relationships (QSAR) estimation if no experimental data<sup>15</sup>).</p>	Classification categories				Acute hazard (see Note 1)	Long-term hazard (see Note 2)		Adequate chronic toxicity data not available (see Note 1)	Adequate chronic toxicity data available		Non-rapidly degradable substances (see Note 3)	Rapidly degradable substances (see Note 3)	<b>Category: Acute 1</b>	<b>Category: Chronic 1</b>	<b>Category: Chronic 1</b>	<b>Category: Chronic 1</b>	L(E)C <sub>50</sub> ≤ 1.00	NOEC or EC <sub>x</sub> ≤ 0.1	NOEC or EC <sub>x</sub> ≤ 0.01	L(E)C <sub>50</sub> ≤ 1.00 and lack of rapid degradability and/or BCF ≥ 500 or, if absent log K <sub>ow</sub> ≥ 4		<b>Category: Chronic 2</b>	<b>Category: Chronic 2</b>	<b>Category: Chronic 2</b>		0.1 < NOEC or EC <sub>x</sub> ≤ 1	0.01 < NOEC or EC <sub>x</sub> ≤ 0.1	1.00 < L(E)C <sub>50</sub> ≤ 10.0 and lack of rapid degradability and/or BCF ≥ 500 or, if absent log K <sub>ow</sub> ≥ 4	In our opinion, the text of link 15 has a dual interpretation.	Write the text as follows: «Special guidance is provided in the GHS (paragraph 4.1.2.13 and Annex 9, Section A9.6)»
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Acute hazard (see Note 1)	Long-term hazard (see Note 2)		Adequate chronic toxicity data not available (see Note 1)																												
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	<p><sup>15</sup> Special guidance is provided in Chapter 4.1, paragraph 4.1.2.13 and Annex 9, Section A9.6 of the GHS.</p>		
5	<p><b>4.2.1.19.2</b> Unless otherwise indicated in Table A of Chapter 3.2, portable tanks used for the carriage of these solid substances above their melting point shall conform to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II. A portable tank which affords an equivalent or greater level of safety may be selected according to 4.2.5.2.5. The maximum degree of filling (in %) shall be determined according to 4.2.1.9.5 (TP3).</p>	<p>The special provision TP3 is in paragraph 4.2.5.3:</p> <p><b>4.2.5.3</b> Portable tank special provisions</p> <p>Portable tank special provisions are as stated to or in lieu of those provided by Portable tank special provisions are if (tank provision) and are assigned to following is a list of the portable tank spe</p> <p><b>TP 3</b> The maximum degree of filling (in %) of portable tanks for flammable liquids shall be determined according to 4.2.1.9.5.</p>	<p>To exclude the misconception of the user of the Rules, it is suggested to delete the last brackets.</p>
6	<p><b>5.4.1.1.9</b> <b>Special provisions for piggyback transport</b></p> <p><b>NOTE:</b> For the information in the transport document, see 1.1.4.4.5.</p>	<p>In the paragraph there is only a title and a note</p>	<p>Delete the word "Note". Text of the note to make the text of the paragraph</p>
7	<p><b>5.3.2.2.1</b> The orange-coloured plates may be reflectorized and shall be of 40 cm base and of 30 cm high; they shall have a black border of 15 mm wide. The material used shall be weather-resistant and ensure durable marking. The plate shall not become detached from its mount in the event of 15 minutes' engulfment in fire. It shall remain affixed irrespective of the orientation of the wagon.</p> <p>The plates prescribed in 5.3.2.1.2 and 5.3.2.1.5 may be replaced by a self-adhesive sheet, by paint or by any other equivalent process. This alternative marking shall conform to the specifications set in this subsection except for the provisions concerning resistance to fire mentioned in 5.3.2.2.1 and 5.3.2.2.2.</p>	<p>The paragraph refers to itself.</p>	<p>Write the text as follows: "This alternative marking shall conform to specifications set in this subsection except for the provisions concerning resistance to fire mentioned in this paragraph and 5.3.2.2.2.»</p>
8	<p><b>6.1.1.1</b><sup>1</sup> The requirements of this Chapter do not apply to:</p> <p>(a) Packages containing radioactive material of Class 7, unless otherwise provided (see 4.1.9);</p> <p>(b) Packages containing infectious substances of Class 6.2, unless otherwise provided (see Chapter 6.3, Note and packing instruction P 621 of 4.1.4.1);</p>	<p>In our opinion, the text of subparagraph (b) in brackets introduces the user into confusion.</p>	<p>Write the text in brackets as follows: (see note to Chapter 6.3 and packing instruction P 621 of 4.1.4.1)</p>
9	<p><b>6.4.11.1</b> Fissile material shall be carried so as to:</p> <p>(a) Maintain sub-criticality during routine, normal and accident conditions of carriage; in particular, the following contingencies shall be considered:</p> <p>(i) water leaking into or out of packages;</p> <p>(ii) the loss of efficiency of built-in neutron absorbers or moderators;</p> <p>(iii) rearrangement of the contents either within the package or as a result of loss from the package;</p> <p>(iv) reduction of spaces within or between packages;</p> <p>(v) packages becoming immersed in water or buried in snow; and</p> <p>(vi) temperature changes; and</p> <p>(b) Meet the requirements:</p> <p>(i) of 6.4.7.2 except for unpackaged material when specifically allowed by 2.2.7.2.3.5 (e);</p> <p>(ii) prescribed elsewhere in RID which pertain to the radioactive properties of the material;</p> <p>(iii) of 6.4.7.3 unless the material is excepted by 2.2.7.2.3.5;</p> <p>(iv) of 6.4.11.4 to 6.4.11.14, unless the material is excepted by 2.2.7.2.3.5, 6.4.11.2 or 6.4.11.3.</p>	<p>Reference to item that have been reserved:</p> <p><b>6.4.11.11</b> (Reserved)</p>	<p>Write down the items as follows: «...6.4.11.4-6.4.11.10, 6.4.11.12-6.4.11.14...»</p>
10	<p><b>6.4.11.2</b> Packages containing fissile material that meet the provisions of subparagraph (d) and one of the provisions of (a) to (c) below are excepted from the requirements of 6.4.11.4 to 6.4.11.14.</p> <p>(a) Packages containing fissile material in any form provided that:</p>		<p>Write down the items as follows: «...6.4.11.4-6.4.11.10, 6.4.11.12-6.4.11.14...»</p>

11	<p><b>6.4.11.3</b> Packages containing not more than 1 000 g of plutonium are excepted from the application of 6.4.11.4 to 6.4.11.14 provided that:</p> <hr/>		Write down the items as follows: «...6.4.11.4-6.4.11.10, 6.4.11.12-6.4.11.14...»
12	<p><b>6.4.11.4</b> Where the chemical or physical form, isotopic composition, mass or concentration, moderation ratio or density, or geometric configuration is not known, the assessments of 6.4.11.8 to 6.4.11.13 shall be performed assuming that each parameter that is not known has the value which gives the maximum neutron multiplication consistent with the known conditions and parameters in these assessments.</p>		Write down the items as follows: «...6.4.11.8-6.4.11.10, 6.4.11.12, 6.4.11.13...»
13	<p><b>6.4.11.5</b> For irradiated nuclear fuel the assessments of 6.4.11.8 to 6.4.11.13 shall be based on an isotopic composition demonstrated to provide either:</p> <p>(a) The maximum neutron multiplication during the irradiation history; or</p> <p>(b) A conservative estimate of the neutron multiplication for the package assessments. After irradiation but prior to shipment, a measurement shall be performed to confirm the conservatism of the isotopic composition.</p>		Write down the items as follows: «...6.4.11.8-6.4.11.10, 6.4.11.12, 6.4.11.13...»
14	<p><b>6.6.5.1.6</b> (Reserved)</p> <p><b>NOTE:</b> For the conditions for assembling different inner packagings in a large packaging and permissible variations in inner packagings, see 4.1.1.5.1.</p>	The paragraph is reserved, but there is a note	Delete the brackets. Delete the word "Note". Text of the note to make the text of the paragraph
15	<p><b>6.9.3.1</b> The requirements of 6.8.2.2.1, 6.8.2.2.2 and 6.8.2.2.4 to 6.8.2.2.8 shall apply.</p> <hr/>	Reference to item that have been reserved:  <b>6.8.2.2.5</b> (Reserved)	Write as follows: «The requirements of 6.8.2.2.1, 6.8.2.2.2, 6.8.2.2.4, 6.8.2.2.6-6.8.2.2.8 shall apply»
16	<p><b>6.10.1.2.1</b> The special requirements of 6.10.2 to 6.10.4 complete or modify Chapter 6.8 and are applied to vacuum-operated waste tanks.</p> <p>Vacuum-operated waste tanks may be equipped with openable ends, if the requirements of Chapter 4.3 allow bottom discharge of the substances to be carried (indicated by the letters "A" or "B" in the tank code given in Column (12) of Table A of Chapter 3.2, in accordance with 4.3.4.1.1).</p> <p>Vacuum-operated waste tanks shall comply with all the requirements of Chapter 6.8, with the exception of requirements overtaken by a special provision in this Chapter. However, the requirements of 6.8.2.1.19 and 6.8.2.1.20 shall not apply.</p>	In our opinion, the text of last sentence introduces the user into confusion.	Write as follows: «Vacuum-operated waste tanks shall comply with all requirements of Chapter 6.8, with exception of requirements overtaken by a special provision in Chapter 6.8.»
17	<p><b>6.8.3.2.21</b> Except for UN No. 1001 acetylene, dissolved, the permissible maximum stress <math>\sigma</math> of the manifolding arrangement at the test pressure of the receptacles shall not exceed 75% of the guaranteed yield strength of the material.</p> <p>The necessary wall thickness of the manifolding arrangement for the carriage of UN No. 1001 acetylene, dissolved shall be calculated according to an approved code of practice.</p> <p><b>NOTE:</b> For the yield strength, see 6.8.2.1.11.</p> <p>The basic requirements of this paragraph shall be deemed to have been complied with if the following standards are applied:</p> <hr/> <p>(Reserved)</p>	The last sentence sends to nowhere	Delete the last sentence and brackets.
18	<p><b>6.8.4</b> <b>Special provisions</b></p> <hr/>	A difficult reference to the special provision TE 22, located on the same page	The text in last brackets is written as follows: «(see also special provision TE 22)»

	<p><b>TE 25</b> Shells of tank-wagons shall also be protected against the overriding of buffers and derailment or, failing that, to limit damage when buffers override by at least one of the following measures.</p>	(Reserved)		
	<p>– The device to protect against the overriding of buffers shall not interfere with the normal functioning of the buffers (elastic or plastic deformation) (see also special provision <b>TE 22</b> in 6.8.4 (b)).</p>			

The proposed amendments make it possible to exclude a double interpretation of the requirements of the Rules and their erroneous interpretation.

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