

**INF. 14**

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**RID:** 9<sup>th</sup> Session of the RID Committee of Experts' standing working group  
(Berne, 28 - 30 May 2018)

**Subject:** Adopted texts

**Note by the Secretariat**

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**Document [OTIF/RID/NOT/2019] adopted with the following modifications:**

**A. Corrections**

**Chapter 1.4**

**1.4.3.3** [The correction in the German version does not apply to the English text.]

**1.4.3.7.1** [The correction in the German version does not apply to the English text.]

**Chapter 1.6**

**1.6.1.1** [The correction in the German version does not apply to the English text.]

**1.6.1.44** [The amendment in the French version does not apply to the English text.]

**Chapter 1.8**

**1.8.3.1** Amend the amendment to read as follows:

**"1.8.3.1** Amend the beginning of the first sentence to read as follows:

"Each undertaking, the activities of which include the consigning or the carriage of dangerous goods by rail, or the related packing, loading, filling or unloading shall appoint one or more safety advisers for the carriage of dangerous goods, ...".

[Reference document: informal document INF.10, as amended]

**1.8.3.3** Amend the second amendment to read:

"[The amendment to the tenth indent of the third subparagraph in the German version does not apply to the English text.]"

[Reference document: informal document INF.8]

**Chapter 1.10**

**1.10.3.3** [The correction in the French version does not apply to the English text.]

**Chapter 2.1**

**2.1.3.5.5** Replace "footnote 2" by:

"footnote 1" (twice).

[Reference document: informal document INF.8]

**Chapter 2.2**

**2.2.51.1.3** In the second amendment, replace "thirteenth indent" by:

"thirteenth and fourteenth indents".

[Reference documents: informal documents INF.4 and INF.10]

**2.2.51.2.2** After the new fourteenth indent, insert the following Note:

**NOTE:** The term "competent authority" means the competent authority of the country of origin. If the country of origin is not an RID Contracting State, the classification and conditions of carriage shall be recognized by the competent authority of the first RID Contracting State reached by the consignment."

[Reference documents: informal documents INF.4 and INF.10]

**2.2.52.3** Delete the second amendment.

[Reference document: informal document INF.8]

**2.2.52.4** Amend the last but one amendment to read:

"Amend the Table as follows:

- Under "DI-(4-tert-BUTYLCYCLOHEXYL) PEROXYDICARBONATE", add the following new row:

"

Organic peroxide	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	≤ 42 as a paste						3116	prohibited

"

- Under "DIISOBUTYRYL PEROXIDE", add the following new row:

Organic peroxide	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	≤ 42 as a stable dispersion in water						3119	prohibited

- After "PEROXYLAURIC ACID", insert the following new row:

Organic peroxide	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1-PHENYLETHYL HYDROPEROXIDE	≤ 38		≥ 62			OP8	3109	

[Reference document: informal document INF.8]

**2.2.8.1.5.3** [The correction in the German version does not apply to the English text.]

**2.2.8.1.7** [The correction in the German version does not apply to the English text.]

**2.2.9.1.8** [The correction in the German version does not apply to the English text.]

### Chapter 3.1

**3.1.2.2** [The correction in the German version does not apply to the English text.]

### Chapter 3.2

**Table A** For UN number 2071, delete the amendment concerning column (3b).

[Reference document: informal document INF.8]

[The correction to UN number 2286 in the German version does not apply to the English text.]

For UN number 3316, PG II, in column (2), replace "(5)" by:

"(4)".

[Reference document: informal document INF.8]

### 3.2.2

**Table B** Amend the second Table to read as follows:

Name and description	UN No.	Note	NHM Code
ARTICLES CONTAINING A SUBSTANCE LIABLE TO SPONTANEOUS COMBUSTION, N.O.S.	3542		++++++
ARTICLES CONTAINING A SUBSTANCE WHICH IN CONTACT WITH WATER EMITS FLAMMABLE GASES, N.O.S.	3543		++++++
ARTICLES CONTAINING CORROSIVE SUBSTANCE, N.O.S.	3547		++++++
ARTICLES CONTAINING FLAMMABLE GAS, N.O.S.	3537		++++++
ARTICLES CONTAINING FLAMMABLE LIQUID, N.O.S.	3540		++++++
ARTICLES CONTAINING FLAMMABLE SOLID, N.O.S.	3541		++++++

Name and description	UN No.	Note	NHM Code
ARTICLES CONTAINING MISCELLANEOUS DANGEROUS GOODS, N.O.S.	3548		++++++
ARTICLES CONTAINING NON-FLAMMABLE, NON TOXIC GAS, N.O.S.	3538		++++++
ARTICLES CONTAINING ORGANIC PEROXIDE, N.O.S.	3545		++++++
ARTICLES CONTAINING OXIDIZING SUBSTANCE, N.O.S.	3544		++++++
ARTICLES CONTAINING TOXIC GAS, N.O.S.	3539		++++++
ARTICLES CONTAINING TOXIC SUBSTANCE, N.O.S.	3546		++++++
LITHIUM BATTERIES INSTALLED IN CARGO TRANSPORT UNIT lithium ion batteries or lithium metal batteries	3536		850650
TOXIC SOLID, FLAMMABLE, INORGANIC, N.O.S.	3535		++++++

"

[Reference document: OTIF/RID/CE/GTP/2018/4]

**Chapter 3.3****SP 251** [The amendment in the French version does not apply to the English text.]**SP 301** In the Note, delete the square brackets.**SP 307** In the second sentence, replace "thirteenth indent" by:

"thirteenth and fourteenth indents".

[Reference documents: informal documents INF.4 and INF.10]

**SP 363** [The corrections in the German version do not apply to the English text.]**Chapter 4.1****4.1.1.12** [The correction in the German version does not apply to the English text.]**4.1.4.1****P 006** [The correction in the French version does not apply to the English text.]**P 801** [The amendment in the French version does not apply to the English text.]**Chapter 4.3****4.3.4.1.3** [The correction in the French version does not apply to the English text.]**Chapter 5.2****5.2.2.2.1.1.2** Delete the square brackets.**5.2.2.2.1.5** [The correction in the German version does not apply to the English text.]

**5.2.2.2.2** In the row for label model No. 2.1, in column "Division or Category", delete:

"(except as provided for in 5.2.2.2.1.6 d))".

In row for label model No. 2.1, in columns "Symbol and symbol colour" and "Figure in bottom corner (and figure colour)", at the end, add:

"(except as provided for in 5.2.2.2.1.6 (d))".

[Reference documents: informal documents INF.5 and INF.10]

In the Table, for Class 4.1 hazard, replace "solid desensitized explosives and polymerizing substances" by:

"polymerizing substances and solid desensitized explosives".

[Reference document: informal document INF.8]

## Chapter 5.3

**5.3.1.1.1** Amend the first sentence of the third amendment to read:

"At the end, before the Note, insert:".

[Reference document: informal document INF.8]

**5.3.1.7.1** Amend the first sentence of the second amendment to read:

"Before the last sentence, insert:".

[Reference document: informal document INF.8]

## Chapter 6.1

**6.1.1.3** [The correction in the German version does not apply to the English text.]

**6.1.5.8.1** Amend the first sentence of the amendment to read:

"Under item 8, replace the semicolon by a full stop and add the following sentence at the end:".

[Reference document: informal document INF.8]

## Chapter 6.2

**6.2.4.1** For standard "EN ISO 17871:2015 + A1:2018", delete the square brackets.

**6.2.4.2** For standards "EN 1440:2016 + A1:2018" and "EN 16728:2016 + A1:2018", delete the square brackets.

## Chapter 6.5

**6.5.4.4.2** [The correction in the German version does not apply to the English text.]

**6.5.6.14.1** Amend the first sentence of the amendment to read:

"Under item 8, replace the semicolon by a full stop and add the following sentence at the end:".

[Reference document: informal document INF.8]

## **Chapter 6.8**

**6.8.2.1.2** Amend the last amendment to read:

"Footnotes 2 to 5 become footnotes 3 to 6."

[Reference document: informal document INF.8]

**6.8.2.1.18** Replace "footnote 4" by:

"footnote 5".

[Reference document: informal document INF.8]

**6.8.2.1.23** In the first amendment, in the new second sentence, after "welding operations", insert:

"on the tank".

[Reference document: informal document INF.7]

In the second amendment amend footnote "6" to read:

"7" (twice).

[Reference document: informal document INF.8]

Amend the third amendment to read:

"Renumber footnotes 6 to 21 as footnotes 8 to 23."

[Reference document: informal document INF.8]

**6.8.2.2.11** [The correction in the French version does not apply to the English text.]

**6.8.2.3.1** Replace footnote "10" by:

"11".

[Reference document: informal document INF.8]

**6.8.2.4.1** [The correction in the German version does not apply to the English text.]

**6.8.2.6.1** Delete the square brackets.

**6.8.2.6.2** Delete the square brackets.

**6.8.3.4.13** [The correction in the German version does not apply to the English text.]

**6.8.5.4** For the second amendment, delete the square brackets.

## Chapter 7.5

### 7.5.7.1 Amend the second sentence of footnote 1 to read:

"Other guidance is also available from competent authorities and industry and transport bodies, particularly in the "Loading Guidelines – Code of practice for the loading and securing of goods on railway wagons", published by the International Union of Railways (UIC)."

[Reference document: OTIF/RID/CE/GTP/2018/2, as amended]

## **B. Additional amendments**

### Chapter 1.2

#### 1.2.1 [The amendment to the definition of "outer packaging" in the German version does not apply to the English text.]

### Chapter 1.4

#### 1.4.2.2.1 In the last paragraph, replace "Section 511 of UIC leaflet 471-3 O ("Inspections of dangerous goods consignments")" by:

"Section 5<sup>11</sup> of IRS 40471-3 (Inspections of dangerous goods consignments) published by UIC".

Amend footnote 11 to read:

"<sup>11</sup> Version of the IRS (International Railway Solution) applicable as from 1 January 2019."

[Reference document: OTIF/RID/CE/GTP/2018/7]

#### 1.4.2.2.8 After "(ECM)", insert:

", either directly or via the operator of the tank-wagon,".

[Reference document: OTIF/RID/CE/GTP/2018/3]

#### 1.4.3.3 [The amendment to the Notes in paragraphs (a) and (f) in the German version does not apply to the English text.]

#### 1.4.3.7.1 [The amendment to the Notes in paragraphs (b) and (d) in the German version does not apply to the English text.]

### Chapter 1.8

#### 1.8.7.2.5 [The amendment in the French version does not apply to the English text.]

### Chapter 1.11

#### 1.11 In the last paragraph, replace "if UIC leaflet 201<sup>22</sup> (Carriage of dangerous goods – Emergency planning guidance for rail marshalling yards) is applied" by:

"if IRS 20201 (Carriage of dangerous goods – Emergency planning guidance for rail marshalling yards) published by UIC<sup>23</sup> is applied".

Amend footnote 23 (current footnote 22) to read:

"<sup>23</sup> Version of the IRS (International Railway Solution) applicable as from 1 January 2019."

[Reference document: OTIF/RID/CE/GTP/2018/8, as amended]

### Chapter 3.2

#### Table A

In the Table, insert the following rows:

UN No.	Column	Amendment
1202, second entry	(2)	Amend "EN 590:2013 + AC:2014" to read: "EN 590: 2013 + A1:2017" (twice). [Reference document: informal document INF.10]
2067	(2)	[The amendment in the German version does not apply to the English text.]
2977	(19)	Delete: "CE15". [Reference document: OTIF/RID/CE/GTP/2018/6]
2978	(19)	Delete: "CE15". [Reference document: OTIF/RID/CE/GTP/2018/6]
3507	(18)	Replace "see SV 369" by: "see SP 369".
	(19)	Delete: "CE15". [Reference document: OTIF/RID/CE/GTP/2018/6]
3528	(15)	Insert: "_". [Reference document: informal document INF.8]
3529	(15)	Insert: "_". [Reference document: informal document INF.8]
3530	(15)	Insert: "_". [Reference document: informal document INF.8]

### 3.2.2

#### Table B

In the first Table insert the following rows in alphabetical order:

Name and description	UN No.	Amendment
AMMONIUM NITRATE BASED FERTILIZER	2067	[The amendment in the German version does not apply to the English text.]
CHLOROPICRIN	1580	Amend the NHM Code in column (4) to read as follows: "290491". [Reference document: OTIF/RID/CE/GTP/2018/4]



Name and description	UN No.	Amendment
CHLOROPICRIN AND METHYL BROMIDE MIXTURE with more than 2% chloropicrin	1581	Amend the NHM Code in column (4) to read as follows: "290491". [Reference document: OTIF/RID/CE/GTP/2018/4]
CHLOROPICRIN AND METHYL CHLORIDE MIXTURE	1582	Amend the NHM Code in column (4) to read as follows: "290491". [Reference document: OTIF/RID/CE/GTP/2018/4]
CHLOROPICRIN MIXTURE, N.O.S.	1583	Amend the NHM Code in column (4) to read as follows: "290491". [Reference document: OTIF/RID/CE/GTP/2018/4]
HYDROCYANIC ACID, AQUEOUS SOLUTION with not more than 20% hydrogen cyanide	1613	Amend the NHM Code in column (4) to read as follows: "281112". [Reference document: OTIF/RID/CE/GTP/2018/4]
HYDROGEN CYANIDE, AQUEOUS SOLUTION with not more than 20% hydrogen cyanide	1613	Amend the NHM Code in column (4) to read as follows: "281112". [Reference document: OTIF/RID/CE/GTP/2018/4]
PHOSGENE	1076	Amend the NHM Code in column (4) to read as follows: "281211". [Reference document: OTIF/RID/CE/GTP/2018/4]
PHOSPHORUS OXYCHLORIDE	1810	Amend the NHM Code in column (4) to read as follows: "281212". [Reference document: OTIF/RID/CE/GTP/2018/4]
PHOSPHORUS PENTACHLORIDE	1806	Amend the NHM Code in column (4) to read as follows: "281214". [Reference document: OTIF/RID/CE/GTP/2018/4]
PHOSPHORUS TRICHLORIDE	1809	Amend the NHM Code in column (4) to read as follows: "281213". [Reference document: OTIF/RID/CE/GTP/2018/4]
SULPHUR CHLORIDES	1828	Amend the NHM Code in column (4) to read as follows: "281216". [Reference document: OTIF/RID/CE/GTP/2018/4]
TETRAETHYL SILICATE	1292	Amend the NHM Code in column (4) to read as follows: "292024". [Reference document: OTIF/RID/CE/GTP/2018/4]

Name and description	UN No.	Amendment
THIONYL CHLORIDE	1836	Amend the NHM Code in column (4) to read as follows: "281217". [Reference document: OTIF/RID/CE/GTP/2018/4]
TRIETHYL PHOSPHITE	2323	Amend the NHM Code in column (4) to read as follows: "292024". [Reference document: OTIF/RID/CE/GTP/2018/4]
TRIMETHYL PHOSPHITE	2329	Amend the NHM Code in column (4) to read as follows: "292023". [Reference document: OTIF/RID/CE/GTP/2018/4]

### Chapter 3.3

- SP 239** [The amendment in the German version does not apply to the English text.]
- SP 363** [The amendment in the German version does not apply to the English text.]
- SP 666** [The amendment in the French and German version does not apply to the English text.]

### Chapter 4.1

- 4.1.1.5** [The amendments in the German version do not apply to the English text.]
- 4.1.1.21.6** For "1202 Diesel fuel" and "1202 Heating oil, light", second entry, in column (2b), replace "EN 590:2013 + AC:2014" by:  
"EN 590:2013 + A1:2017".  
[Reference document: informal document INF.10]

#### 4.1.4.1

- P 401** Amend special packing provision specific to RID and ADR "PR 7" to read:  
"RR 7".

- 4.1.5.11** [The amendments in the German version do not apply to the English text.]

### Chapter 4.3

- 4.3.2.2.1** [The amendment to paragraph (c) in the French version does not apply to the English text.]

### Chapter 5.2

- 5.2.2.2.1.6** In paragraph (d), replace "for gases of UN Nos. 1011, 1075, 1965 and 1978" by:  
"for liquefied petroleum gases".

[Reference documents: informal documents INF.5 and INF.10]

### Chapter 5.3

**5.3.2.1.1** Insert the following new second sentence:

"This plate shall also be affixed on both sides of cargo transport units in which lithium batteries are installed (UN 3536)."

[Reference document: informal document INF.15]

**5.3.2.2.1** In the second sub-paragraph, amend "The plates prescribed in 5.3.2.1.2 and 5.3.2.1.5" to read:

"The orange-coloured plates".

[Reference document: OTIF/RID/CE/GTP/2018/1]

**5.3.2.3.2** [The amendments in the French version do not apply to the English text.]

### Chapter 6.1

**6.1.4.20.1.3** [The amendment in the German version does not apply to the English text.]

**6.1.5.1.7** [The amendments in the German version do not apply to the English text.]

### Chapter 6.8

**6.8.2.6.1** Amend the Table, under "For design and construction of tanks", as follows:

"– For standard "EN 13094:2015", in column (2), add the following Note:

**"NOTE:** The guideline on the OTIF website ([www.otif.org](http://www.otif.org)) also applies."

[Reference document: OTIF/RID/CE/GTP/2018/10, as amended by informal document INF.10]

## **C. Introduction of the following guideline on OTIF's website**

### **Guidelines on how to apply standard EN 13094:2015 in order to comply with RID**

The European standard EN 13094 specifies requirements for the design and construction of metallic gravity-discharge tanks intended for the carriage of substances having a vapour pressure not exceeding 110 kPa (absolute pressure) for which a tank code with letter "G" is given in Chapter 3.2 of RID.

In order to comply with the requirements of RID, the following amendments to EN 13094:2015 shall be made.

#### **1. Amendment of 3.1, Terms and definitions**

*Delete the definition of maximum working pressure in 3.1.4.*

## 2. Amendment of 6.4, Dynamic conditions

*In the first paragraph of 6.4.2, replace “ $P_v$ ” with “ $P_{ta}$ ”, where  $P_{ta}$  = static pressure (gauge pressure) in Megapascals (MPa).*

## 3. Amendment of 6.5, Pressure conditions

### 3.1 Amendment of 6.5.1

*Delete “c) 1.3 times the maximum working pressure”.*

### 3.2 Amendment of 6.5.2

*Replace “ $1.3 \times (P_{ta} + P_{ts})$ ” with “ $\max(0.2; 1.3 \times P_{ta \text{ water}}; 1.3 \times P_{ta})$ ”.*

## 4. Amendment of Annex A, A.5 Calculation method — Worksheet

### 4.1 Amendment of A.5.2.2.1, Table A.2, Pressures

*Replace N° 2 “Maximum working pressure <sup>b</sup>,  $P_{ms}$ ” with “Opening pressure of the breather device,  $P_{ts}$ ”.*

*Delete “<sup>b</sup> $P_{ms}$  is the maximum of  $P_{vd}$ ,  $P_{ts}$ ,  $P_d$  and  $P_r$ ”.*

### 4.2 Amendment of A.5.2.2.2, Table A.3, Calculation pressure in service conditions

*In 4, 5, 6 and 7, replace “ $P_{ms}$ ” with “ $P_{ts}$ ”.*

### 4.3 Amendment of 5.6.2.1.2, Tensile stress due to pressure during transport

*In a) Force, replace “ $P_{ms}$ ” with “ $P_{ts}$ ”.*

[Reference document: OTIF/RID/CE/GTP/2018/10, as amended by informal document INF.10]

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