



# Economic and Social Council

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## 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, 17–27 September 2013

Item 6 (b) of the provisional agenda

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

##### New proposals

### Draft information coding for electronic data interchange

#### Transmitted by the International Union of Railways (UIC) and the International Road Transport Union (IRU)<sup>1,2</sup>

### Introduction

1. During recent RID/ADR/ADN Joint Meetings, some professional organizations presented proposals for simplifying the mandatory information to be included as “text” in transport documentation. The discussions in September 2012 looked at specific cases, such as the elevated temperature mark (ECE/TRANS/WP.15/AC.1/2013/20) or the environmentally hazardous substances mark (INF.22 of the September 2012 Joint Meeting). The work of the Joint Meeting allowed UIC and IRU to broaden the discussion to the issues raised by the inclusion of this information in businesses’ software applications and in electronic data interchange systems.

2. The possibilities for drafting regulations in this area are limited by the need for legal consistency and harmonization of the RID/ADR/ADN regulations with the provisions of the UN Model Regulations. The professional organizations require a high level of harmonization to simplify the interfaces and encourage the development of international and intermodal transport.

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<sup>1</sup> In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106, ECE/TRANS/2010/8, programme activity 02.7 (c)).

<sup>2</sup> Circulated by the Intergovernmental Organisation for International Carriage by Rail (OTIF) under the symbol OTIF/RID/RC/2013/47.

3. However, UIC and IRU are of the opinion that these requirements should not stop the search for effective and concerted solutions. As shown in the annex to this document, the mandatory information to be considered applies to packages, vehicles/wagons and documentation. The information in the annex is shown in order of appearance in RID/ADR (ADN has not yet been considered). It could be classified differently, for instance, by nature or by use.

4. A general approach is being proposed, to cover all the information identified, without any bias. Without pre-empting the results that will come of working together with those concerned, the proposals could cover all or part of the information identified. They could, for example, cover only the coding of the labels and marks, or also the “text” information to be included in the documentation.

5. The provision of information to the different parties involved in the coding, displayed in tables inserted at appropriate places in the regulations to facilitate their use, is already an option. The coding will have an indicative, not a regulatory, status, and can be used in the different transport operational management information systems. The current regulatory provisions, particularly the content of table 3.2, will not be affected by the coding.

## **Proposal**

6. UIC and IRU ask the Joint Meeting to consider the guidelines proposed below and to give an agreement in principle on the approach adopted. The work can be started immediately. UIC and IRU will take an active part.

## **Justification**

7. Harmonized information coding would improve efficiency in information management, particularly of the information included in transport documentation, and in the electronic transmission of data between participants and between modes of transport. This will result in better control of the operating conditions for the transport of dangerous goods.

8. Coding of “text” information also facilitates the automatic production of the information in languages used in the different countries.

9. The proposed approach should also contribute to the work done by the working group on telematics set up by the Joint Meeting.

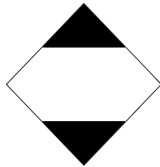
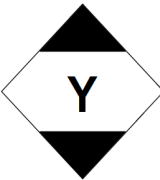



## Annex

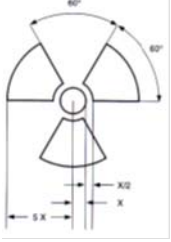

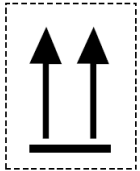
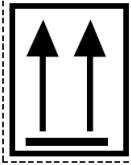



**This table provides models of labels or placards identified by a number in RID/ADR/(ADN), as well as the mandatory information without any specific identifier (markings, “text” to be included in the documents, listing on packaging/tanks).**




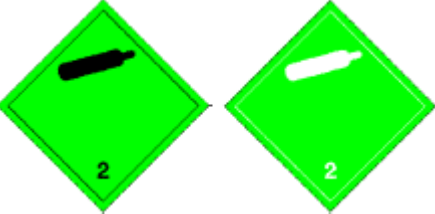


**The table is not exhaustive and will be added to if necessary.**

- (1) RID/ADR(ADN) references
- (2) Relevant RID
- (3) Relevant ADR
- (4) Nature of the information
- (5) Identifier/Number in RID/ADR/(ADN)
- (6) Information applicable to packages
- (7) Information applicable to the vehicle/wagon/tank
- (8) Information contained in the transport document – (X) means “optional”
- (9) Reserved – column for any proposed code






References	RID	ADR	Labels/Marks/Marking/Placarding/ Special provisions	Identification Number	Package	Vehicle/wagon/ container	Documentation	Code
					5.2	5.3	5.4	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
3.3 (172)	X	X	e.g. “Subsidiary risk: 3, 6.1”				X	
3.3 (188)	X	X	“lithium metal” or “lithium ion”		X		(X)	
3.3 (318)	X	X	Suspected Category A infectious substance				X	
3.3 (363)	X	X	Carriage in accordance with Special Provision 363				X	
3.3 (623)		X	Transport under minimum temperature of the product of 32.5° C				X	
3.3 (625)	X	X	UN 1950 AEROSOLS		X			
3.3 (633)	X	X	“Keep away from any source of ignition”		X			
3.3 (636 iii)	X	X	USED LITHIUM CELLS		X			
3.3 (637)		X	“Cool at +2°/+4° C” or “Carry in frozen state” or “Do not freeze”				X	
3.3 (653)	X	X	“UN 1006” for argon compressed, “UN 1013” for carbon dioxide, “UN 1046” for helium compressed or “UN 1066” for nitrogen compressed		X			

3.3 (658)	X	X	UN 1057 LIGHTERS” or “UN 1057 LIGHTER REFILLS		X			
3.3 (660 g)	X	X	Shall appear according to one of the following examples: “UN 1971 natural gas, compressed, 2.1, 1 fuel gas containment system of 50 l in total, 200 bar” or “UN 1965 hydrocarbon gas mixture, liquefied, n.o.s., 2.1, 3 fuel gas containment systems, each of 15 kg net mass of gas”				(X)	
3.4.7	X	X	 Packaging containing dangerous goods in limited quantities		X	X		
3.4.8	X	X	 (air transport)		X	X		
3.5.4.2	X	X	 Excepted quantities mark		X		(X)	
4.1 (P650)	X	X	BIOLOGICAL SUBSTANCE, CATEGORY B  Packing instruction		X			
4.1 (P904)	X	X	 Packing instruction		X			
5.1.2.1	X	X	OVERPACKS		X			







5.2.1.7.6 6.8.4 (TM7)	X	X	Special marking provisions for goods of Class 7 		X	X		
5.2.1.8.3 5.3.6 5.4.1.1.18	X	X	ENVIRONMENTALLY HAZARDOUS 		X	X	X	
5.2.1.9.1	X	X	 oder  Orientation arrows		X			
5.2.2.2.1	X	X	Explosive substances or articles 	1	X	X	X	
5.2.2.2.1	X	X	Explosive substances or articles 	1.4	X	X	X	
5.2.2.2.1	X	X	Explosive substances or articles 	1.5	X	X	X	

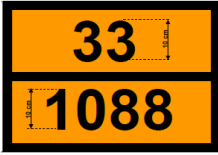



5.2.2.2.1	X	X	Explosive substances or articles 	1.6	X	X	X	
5.2.2.2.1	X	X	Flammable gases 	2.1	X	X	X	
5.2.2.2.1 5.2.2.2.1.6 d	X	X	Flammable gases 	2.1	X	X	X	
5.2.2.2.1	X	X	Non-flammable, non-toxic gases 	2.2	X	X	X	
5.2.2.2.1	X	X	Toxic gases 	2.3	X	X	X	
5.2.2.2.1	X	X	Flammable liquids 	3	X	X	X	

5.2.2.2.1	X	X	Flammable solids, self-reactive substances and solid desensitized explosives 	4.1	X	X	X	
5.2.2.2.1	X	X	Substances liable to spontaneous combustion 	4.2	X	X	X	
5.2.2.2.1	X	X	Substances which, in contact with water, emit flammable gases 	4.3	X	X	X	
5.2.2.2.1	X	X	Oxidizing substances 	5.1	X	X	X	
5.2.2.2.1	X	X	Organic peroxides 	5.2	X	X	X	




5.2.2.2.1	X	X	<p>Toxic substances</p> 	6.1	X	X	X	
5.2.2.2.1	X	X	<p>Infectious substances</p> 	6.2	X	X	X	
5.2.2.2.1	X	X	<p>Radioactive material Category I</p> 	7A	X	X	X	
5.2.2.2.1	X	X	<p>Radioactive material Category II</p> 	7B	X	X	X	
5.2.2.2.1	X	X	<p>Radioactive material Category III</p> 	7C	X	X	X	



5.2.2.2.1	X	X	Radioactive material – Fissile material 	7E	X	X	X	
5.2.2.2.1	X	X	Corrosive substances 	8	X	X	X	
5.2.2.2.1	X	X	Miscellaneous dangerous substances and articles 	9	X	X	X	
5.3.1.7.2	X	X	Placard for radioactive material of Class 7 	7D	X	X	X	
5.3.2.2 1.1.4.4	X	X	 Orange-coloured plate (neutral)			X	(X)	
5.3.2.2.1	X		 Orange-coloured plate (small, neutral)			X		

5.3.2.2.3	X	X	 <p>Orange-coloured plate with hazard identification number and UN number</p>			X	(X)	
5.3.3 3.3 (580)	X	X	 <p>Mark for elevated temperature substances</p>			X		
5.3.4.2	X		<p>Shunt with care</p> 	13		X		
5.3.4.2	X		<p>Loose shunting or hump shunting forbidden. Shall be accompanied by a motive power unit. Shall not bump, or be bumped by, other wagons.</p> 	15		X		
5.4.1.1.3	X	X	WASTES				X	
5.4.1.1.5	X	X	SALVAGE PACKAGING				X	
5.4.1.1.5	X	X	SALVAGE PRESSURE RECEPTACLE				X	
5.4.1.1.6.1	X	X	EMPTY, UNCLEANNED				X	
5.4.1.1.6.1	X	X	RESIDUE, LAST CONTAINED				X	
5.4.1.1.6.2.1	X	X	“EMPTY PACKAGING”, “EMPTY RECEPTACLE”, “EMPTY IBC” or “EMPTY LARGE PACKAGING”,				X	
5.4.1.1.6.2.2	X	X	“EMPTY TANK-VEHICLE”, “EMPTY DEMOUNTABLE TANK”, “EMPTY TANK-CONTAINER”, “EMPTY PORTABLE TANK”, “EMPTY BATTERY-VEHICLE”, “EMPTY MEGC”, “EMPTY MEMU”, “EMPTY VEHICLE”, “EMPTY CONTAINER” or “EMPTY RECEPTACLE”, as appropriate, followed by the words “LAST LOAD:”				X	
5.4.1.1.6.2.3		X	EMPTY, UNCLEANNED RETURN				X	
5.4.1.1.6.3 a	X	X	Carriage in accordance with 4.3.2.4.3				X	
5.4.1.1.6.3 b	X	X	Carriage in accordance with 7.5.8.1				X	
5.4.1.1.6.4	X	X	Carriage in accordance with 4.3.2.4.4				X	

5.4.1.1.7	X	X	Carriage in accordance with 1.1.4.2.1				X	
5.4.1.1.9 1.1.4.4.5	X		“CARRIAGE IN ACCORDANCE WITH 1.1.4.4”				X	
5.4.1.1.11	X	X	“Carriage in accordance with 4.1.2.2 (b)”, “Carriage in accordance with 6.7.2.19.6 (b)”, “Carriage in accordance with 6.7.3.15.6 (b)” or “Carriage in accordance with 6.7.4.14.6 (b)”				X	
5.4.1.1.12	X		CARRIAGE IN ACCORDANCE WITH RID IN FORCE BEFORE 1 JANUARY 2013				X	
5.4.1.1.14	X	X	“MOLTEN” “ELEVATED TEMPERATURE” “HOT”				X	
5.4.1.1.15		X	Control temperature: ... °C Emergency temperature: ... °C				X	
5.4.1.1.16 3.3 (640)	X	X	Special provision 640X				X	
5.4.1.1.17	X	X	Bulk container BK(x) approved by the competent authority of ...				X	
5.4.1.1.18	X	X	“ENVIRONMENTALLY HAZARDOUS” or “MARINE POLLUTANT/ ENVIRONMENTALLY HAZARDOUS				X	
5.4.1.2.1 b	X	X	Goods of UN Nos. ...				X	
5.4.1.2.1 c	X	X	0190 SAMPLES, EXPLOSIVE				X	
5.4.1.2.1 e	X		PACKAGING APPROVED BY THE COMPETENT AUTHORITY OF (indication of the state (distinguishing sign of the states for motor vehicles in international traffic), on whose behalf the competent authority is acting. (see 4.1.4.1. packaging instruction P101).				X	
5.4.1.2.1 f	X		MILITARY CONSIGNMENT				X	
5.4.1.2.1 g	X	X	Classification of fireworks by the competent authority of XX with the firework reference XX/YYZZZZ				X	
5.4.1.2.2	X	X	Carriage in accordance with 4.1.6.10				X	
5.4.1.2.2 c	X		MASS OF NEW LOAD ... KG				(X)	
5.4.1.2.2 d	X		THE TANK IS GUARANTEED AS INSULATED IN ORDER THAT THE SAFETY VALVES CANNOT OPEN BEFORE ... (date accepted by the carrier)				X	
5.4.1.2.3.1		X	Control temperature: ... °C Emergency temperature: ... °C				X	
5.4.1.2.3.2	X	X	The label conforming to model No. 1 is not required				X	
5.4.1.2.3.3	X	X	Carriage in accordance with 2.2.52.1.8				X	
5.4.1.2.3.4	X	X	Carriage in accordance with 2.2.52.1.9				X	
5.4.1.2.3.5	X	X	Not a self-reactive substance of Class 4.1 – Not a substance of Class 5.2				(X)	
5.4.1.2.5.1 i	X	X	EXCLUSIVE USE SHIPMENT				X	
5.4.1.4.1	X		RID CROSS				X	
5.4.1.5	X	X	Not goods of Class ...				(X)	

5.4.2	X	X	DANGEROUS CO2 GAS (DRY ICE) INSIDE. VENTILATE THOROUGHLY BEFORE ENTERING			X		
5.5.2.3.1 5.5.2.3.2	X	X	 <p>Fumigation warning mark</p>			X		
5.5.2.4.1	X	X	“UN 3359, fumigated cargo transport unit, 9”, or “UN 3359, fumigated cargo transport unit, Class 9”				(X)	
5.5.3.4.1	X	X	“AS COOLANT” or “AS CONDITIONER”		X			
5.5.3.6.2	X	X	 <p>Warning mark (carbon dioxide, solid, as coolant)</p>			X		
5.5.3.7.1	X	X	“AS COOLANT” or “AS CONDITIONER”				(X)	
6.8.4 e (TM 1)	X	X	“Do not open during carriage. Liable to spontaneous combustion.”			X		
6.8.4 e (TM 2)	X	X	“Do not open during carriage. Gives off flammable gases on contact with water.”			X		
6.8.4 e (TM 3)	X	X	Proper shipping names of the approved substances			X		
6.8.4 e (TM 4)	X	X	Chemical name			X		
6.8.4 e (TM 5)	X	X	Date (month/year) of the most recent inspection of the internal condition of the shell			X		
6.8.4 e (TM 6) 5.3.5	X		Orange band in accordance with 5.3.5 			X		
6.8.4 e (TM 7)	X	X	Trefoil symbol as described in 5.2.1.7.6			X		
7.5 (CV36/CW36)	X	X	“WARNING NO VENTILATION OPEN WITH CAUTION”			X		