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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**

15 February 2016

Bern, 14–18 March 2016

Item 2 of the provisional agenda

##### **Tanks**

### **Proposal for the amendment of special provisions TU21 and TU16 of Chapter 4.3 of RID/ADR/ADN/Annex 2 to SMGS**

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

##### **Introduction**

1. Special provisions TU21 and TU16 in Chapter 4.3 "Use of tank wagons/ fixed tanks (tank vehicles), demountable tanks, tank containers and tank swap bodies, with shells made of metallic materials, and battery-wagons/battery-vehicles and multiple element gas containers (MEGCs)" RID/ADR/ADN/Annex 2 to SMGS set out additional safety requirements for tanks carrying UN 1381 PHOSPHORUS, WHITE, YELLOW PHOSPHORUS UNDER WATER or IN SOLUTION, UN 2447 PHOSPHORUS, WHITE, MOLTEN and for the carriage of empty, uncleaned tanks which have contained these substances. There are additional requirements for carriage imposed by the legislator on the basis of the type of protective agent.

2. The Ministry of Transport of the Russian Federation and institutions engaged in the training of personnel has become aware that the presence of too much repeated text and numeric data, as well as the presence of too much information in special provisions TU21 and TU16, creates certain problems for other participants in the transport chain in terms of the correct interpretation. Special provisions TU21 and TU16 are not sufficiently coordinated. In addition, special provision TU16 includes a means of protection which is not ecologically sound.

##### **Proposal**

3. In this regard, the Ministry of Transport of the Russian Federation proposes that special provisions TU21 and TU16 of Chapter 4.3 of RID/ADR/ADN/Annex 2 to SMGS separate repetitive text and numeric data in columns in a tabular form, while removing unnecessary, as well as ecologically unsound information.

3.1. Amend special provision TU21 as follows:

“**TU21** The substance shall be protected by a protective agent in the following ways:

Protective agent	A layer of water		degree of filling at a temperature of 60 ° C should not exceed (%)	Additional requirements for transport at low ambient temperatures
	tank-wagon/tank-vehicle	tank-container		
Nitrogen*	–	–	96	-
Water + nitrogen*	not less than 30 cm	not less than 12 cm	96	The water shall contain sufficient anti-freeze agent to prevent it from freezing. The anti-freeze agent shall be free from corrosive action and not liable to react with the substance.
Water	not less than 30 cm	not less than 12 cm	98	

*\*) The remaining space of the tank shall be filled with nitrogen in such a way that, even after cooling, the pressure at no time falls below atmospheric pressure. The tank shall be closed in such a way that no leakage of gas occurs.”*

3.2. Amend special provision TU16 as follows:

“**TU16** When handed over for carriage uncleaned empty tanks must be filled with a protective agent in the following ways:

Protective agent	A layer of water		Additional requirements for transport at low ambient temperatures
	tank-wagon/tank-vehicle	tank-container	
Nitrogen*	–	–	-
* Water + nitrogen	30 cm	30 cm	The water shall contain sufficient anti-freeze agent to prevent it from freezing. The anti-freeze agent shall be free from corrosive action and not liable to react with the substance.

*\* The remaining space of the tank shall be filled with nitrogen in such a way that, even after cooling, the pressure at no time falls below atmospheric pressure. The tank shall be closed in such a way that no leakage of gas occurs.*

(RID only:)

An additional entry shall be included in the transport document:

"Tank filled with \_\_\_\_\_\* in accordance with special provision TU 16."

\_\_\_\_\_

\* Indicates the name(s) of the protective agent(s). Where the tank is filled with water, its mass shall be indicated in kg; in the case of nitrogen, its pressure shall be given in MPa or bar.”

## **Justification**

These amendments will help participants interpret the transport requirements of special provisions TU21 and TU16 correctly, make special provisions TU21 and TU16 compatible and remove the ecologically unsound protection method from special provision TU16.

## **Application**

No problems with ensuring the application of the amendment are expected.

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