

Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

17 September 2014

Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods

Geneva, 15-19 September 2014

Item 5 (a) of the provisional agenda

Proposals for amendments to RID/ADR/ADN: pending issues

Modification of RID/ADR 5.5.3, modification to document 2014/43

Transmitted by the Governments of Austria and Spain

Proposals

The proposed new text is included in **bold**.

Amend 5.5.3.1.5 to read as follows:

Sub-sections 5.5.3.6 and 5.5.3.7 only apply when there is an actual risk of asphyxiation in the vehicle or container. It is for the participants concerned to assess this risk, taking into consideration hazards presented by the substances being used for cooling or conditioning, the amount of substance to be carried, the duration of the journey, **and** the types of containment to be used **and the gas concentration limits given in the note to 5.5.3.3.3.**

(ADR only) Amend 5.5.3.3.3 to read as follows:

“5.5.3.3.3 Packages containing a coolant or conditioner shall be carried in well ventilated vehicles and containers. Marking according to 5.5.3.6 is not required in this case.

Ventilation is **not required, and marking according to 5.5.3.6. is required**, if:

- gas exchange between the load compartment and the **driver’s** cabin is prevented, or
- the load compartment is insulated, refrigerated or mechanically refrigerated equipment, *for example* as defined in the Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP) where this requirement is fulfilled.

Note: **To ensure the safety of transport personnel**, in this context “well ventilated” means to ensure that carbon dioxide is below 0,5 % and that oxygen content is above 19,5 %.”

(RID only) Amend 5.5.3.3.3 to read as follows:

“5.5.3.3.3 Packages containing a coolant or conditioner shall be carried in well ventilated wagons and containers. Marking according to 5.5.3.6 is not required in this case.

Ventilation is **not required, and marking according to 5.5.3.6. is required**, if:

- gas exchange between the load compartment and **and compartments accessible to staff and passengers during transport** is prevented, or
- the load compartment is insulated, refrigerated or mechanically refrigerated equipment, for example as defined in the Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP) where this requirement is fulfilled.

Note: **To ensure the safety of transport personnel**, in this context “well ventilated” means to ensure that carbon dioxide is below 0,5 % and that oxygen content is above 19,5 %.”

~~Packages containing a coolant or conditioner shall be carried in well ventilated wagons and containers. This provision does not apply when such packages are carried in insulated, refrigerated or mechanically refrigerated equipment, for example as defined in the Agreement on the International Carriage of Perishable Foodstuffs and on the Special Equipment to be Used for such Carriage (ATP).~~

~~Note: in this context “well ventilated” means to ensure that carbon dioxide is below 0,5 % and that oxygen content is above 19,5 %.”~~

Amend 5.5.3.6.1 to read as follows:

5.5.3.6.1 Not well ventilated vehicles/wagons and containers containing dangerous goods used for cooling or conditioning shall be marked with a warning mark, as specified in 5.5.3.6.2, affixed at each access point in a location where it will be easily seen by persons opening or entering the vehicle/wagon or container. This mark shall remain on the vehicle/wagon or container until the following provisions are met:

- (a) The vehicle/wagon or container has been ventilated to remove harmful concentrations of coolant or conditioner; and
- (b) The cooled or conditioned goods have been unloaded.

As long as the vehicle/wagon or container is marked, the necessary precautions have to be taken before entering it. The necessity of ventilating through the cargo doors or other means (e.g. forced ventilation) has to be evaluated and included in training of the involved persons.

Proposal

In Table A for UN 1845 replace “NOT SUBJECT TO ADR - When used as a coolant, see 5.5.3” by “**Not subject to ADR except 5.5.3**”

Amend 5.5.3.1.1 to read as follows:

“5.5.3.1.1 This section is not applicable to substances which may be used for cooling or conditioning purposes when carried as a consignment of dangerous goods, except for the transport of dry ice (UN 1845). When they are carried as a consignment, these substances shall be carried under the relevant entry of Table A Chapter 3.2 in accordance with the associated conditions of carriage.

For UN 1845, the conditions of transport specified in this section, except 5.5.3.3.1, do apply for all kinds of transport, as a coolant, conditioner, or as a consignment. For the carriage of UN 1845, no other provisions of RID/ADR do apply.