

**Economic and Social Council**Distr.: General
21 December 2012

Original: English

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, 18–22 March 2013

Item 5 (b) of the provisional agenda

**Proposals for amendments to RID/ADR/ADN:
new proposals****Amendment to 5.3.3 (Elevated temperature mark)****Transmitted by the European Chemical Industry Council (CEFIC)^{1, 2}***Summary***Executive summary:** Harmonize the requirement in RID/ADR/ADN for the use of the elevated temperature mark with these of the United Nations Model Regulations.**Action to be taken:** Amend 5.3.3**Introduction**

1. Section 5.3.3 of RID/ADR/ADN requires that substances, transported or offered for transport in a liquid state at a temperature equal to or exceeding 100 °C or in a solid state at a temperature equal to or exceeding 240 °C and where the special provision 580 is

¹ 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)).

² Circulated by the Intergovernmental Organisation for International Carriage by Rail (OTIF) under the symbol OTIF/RID/RC/2013/20.

assigned, shall bear the elevated temperature mark. This special provision 580 is assigned to the following entries.

- UN 3257 ELEVATED TEMPERATURE LIQUID, N.O.S and
- UN 3258 ELEVATED TEMPERATURE SOLID, N.O.S.

2. With the 2013 amendment of RID/ADR/ADN the special provision 580 is also assigned to

- UN 3256 ELEVATED TEMPERATURE LIQUID, FLAMMABLE, N.O.S. If the substance is transported at or above 100 °C.

3. Certain substances, transported under a UN number other than UN Nos 3256, 3257 and 3258 can however also be transported at 100 °C or above, respectively at 240 °C or above, but they do not require the elevated temperature mark as special provision 580 is not assigned.

4. However the risk of burns exists for all transport units which contain liquids at or above 100 °C or solids at or above 240°C. Therefore these transport units should also be marked with the elevated temperature mark in order to protect the personnel involved in the transport and to inform rescue and emergency services in case of incidents. Examples of such substances are UN 1578 (Chloronitrobenzenes, solid), UN 2651 (4,4-Diaminodiphenylmethane), UN 2811 (Toxic solid, organic, n.o.s.) and UN 2921 (Corrosive solid, flammable, n.o.s.).

5. Rather than assigning to these UN numbers a new special provision, similar to SP 580 but only applicable if the substances are effectively transported at elevated temperatures, it is proposed to harmonize RID/ADR/ADN with the United Nations Model Regulations and the IMDG Code, which do not make use of a special provision to indicate the need for the elevated temperature mark but have all requirements in subsection 5.3.2.2, applicable to all substances.

Proposal

6. Cefic therefore proposes the following amendments.

- (a) Amend section 5.3.3 of ADR as follows:

Tank-vehicles, tank-containers, portable tanks, special vehicles or containers or especially equipped vehicles or containers ~~for which a mark for elevated temperature substances is required according to special provision 580 in Column (6) of Table A of chapter 3.2 containing a substance that is carried or handed over for carriage in a liquid state at or above 100 °C or in a solid state at or above 240 °C~~ shall bear on both sides and at the rear for vehicles, and on both sides and at each end for containers, tank-containers and portable tanks, a triangular shaped mark with sides of at least 250 mm, to be shown in red, as reproduced below.



Similar amendments as in the ADR text above need to be applied to section 5.3.3 of RID and ADN.

- (b) Remove SP 580 in Chapter 3.2, Table A, column (6) for UN numbers 3256, 3257 and 3258.
- (c) Delete SP 580 in Chapter 3.3.

Justification

7. Protection of personnel involved in transport operations and information for rescue services in emergencies.

Enforcement

8. It may be recommended to inform specifically consignors and carriers dealing with substances carried under UN 3256, 3257 and 3258 that although SP 580 has disappeared, the elevated temperature mark is still required because of the amended section 5.5.3.
