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**Committee of Experts on the Transport of Dangerous Goods  
and on the Globally Harmonized System of Classification  
and Labelling of Chemicals****Sub-Committee of Experts on the Transport of Dangerous Goods****Thirty-seventh session**

Geneva, 21–30 June

Item 3 of the provisional agenda

**Listing, classification and packing****Portable tanks for chemicals under pressure****Transmitted by the International Council of Chemical Association  
(ICCA)<sup>1</sup>**

1. This document is linked to document ST/SG/AC.10/C.3/2010/38 for the classification and packing of “Chemicals under pressure”. For the moment these products are classified as liquefied gases (flammable or non-flammable UN 3161 or UN3163). UN numbers 3161 and 3163 are listed in Tank instruction T50. Once the new UN numbers, proposed in ST/SG/AC.10/C.3/2010/38 are implemented in the UN Model Regulations, the same packagings and tanks used today should be allowed. Therefore tank instruction T50 should be linked to the new UN numbers.

2. It is proposed to amend the introduction to portable tank instruction T50 to read as follows:

"This portable tank instruction applies to non-refrigerated liquefied gases and chemicals under pressure (UN3XXX, UN3YYY, UN3AAA, UN3BBB, UN3CCC, and UN3DDD).

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<sup>1</sup> In accordance with the programme of work of the Sub-Committee for 2009-2010 approved by the Committee at its fourth session (refer to ST/SG/AC.10/C.3/68, para. 118 (d) and ST/SG/AC.10/36, para. 14).

3. Add UN3XXX, UN3YYY, UN3AAA, UN3BBB, UN3CCC and UN3DDD to portable tank instruction T50 as follows:

UN No	Non-refrigerated liquefied gases	Max. allowable working pressure (bar)	Openings below liquid level	Pressure-relief requirements (see 6.7.3.7.3)	Maximum filling ratio
<u>3XXX</u>	<u>Chemical under pressure, n.o.s.</u>	<u>See MAWP definition in 6.7.3.1</u>	<u>Allowed</u>	<u>6.7.3.7.3</u>	<u>See 4.2.2.7</u>
<u>3YYY</u>	<u>Chemical under pressure, flammable, n.o.s.</u>	<u>See MAWP definition in 6.7.3.1</u>	<u>Allowed</u>	<u>6.7.3.7.3</u>	<u>See 4.2.2.7</u>
<u>3AAA</u>	<u>Chemical under pressure, non flammable, toxic, n.o.s.</u>	<u>See MAWP definition in 6.7.3.1</u>	<u>Allowed</u>	<u>6.7.3.7.3</u>	<u>See 4.2.2.7</u>
<u>3BBB</u>	<u>Chemical under pressure, non flammable, corrosive, n.o.s.</u>	<u>See MAWP definition in 6.7.3.1</u>	<u>Allowed</u>	<u>6.7.3.7.3</u>	<u>See 4.2.2.7</u>
<u>3CCC</u>	<u>Chemical under pressure, flammable, toxic, n.o.s.</u>	<u>See MAWP definition in 6.7.3.1</u>	<u>Allowed</u>	<u>6.7.3.7.3</u>	<u>See 4.2.2.7</u>
<u>3DDD</u>	<u>Chemical under pressure, flammable, corrosive, n.o.s.</u>	<u>See MAWP definition in 6.7.3.1</u>	<u>Allowed</u>	<u>6.7.3.7.3</u>	<u>See 4.2.2.7</u>

Chemicals under pressure meeting Division 2.3 or Division 6.1, packing group I, or Class 8, packing group I, are not allowed (see Special provision XYZ) in T50 portable tanks.

4. Add a new portable tank special provision in 4.2.5.3 as follows:

"TPXX The tank shall be fitted with a special device to prevent excess pressure during normal transport condition. Pressure relief devices are as indicated in 6.7.3.7.3 to prevent crystallization of the product in the pressure relief device."

Alternative proposal:

TPXX Tanks shall be fitted with pressure relief devices as prescribed in 6.7.3.7.3 to prevent crystallization of the product in the pressure relief devices."

5. Amend 4.2.2.7.2 as follows:

(a) Add: "a)" before the existing text

(b) And add a new paragraph:

"(b) Portable tanks for chemicals under pressure (UN3XXX, UN3YYY, UN3AAA, UN3BBB, UN3CCC, UN3DDD) shall be so filled that at 50°C the non-gaseous phase does not exceed 95% of their water capacity and that they are not completely filled at 60°C. The vapour pressures and volumetric expansion of all substances in the pressure receptacle shall be taken into account."

6. Amend the headings of sections 4.2.2 and 6.7.3 and the relevant paragraphs therein, to include “and chemicals under pressure” in addition to the current wording “non-refrigerated liquefied gas” as follows:

"4.2.2 General provisions for the use of portable tanks for the transport of non-refrigerated liquefied gases and chemicals under pressure";

"6.7.3 Requirements for the design, construction, inspection and testing of portable tanks intended for the transport of non-refrigerated gases and chemicals under pressure."

## Annex

### Example of portable tank for chemicals under pressure

