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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-fourth session  
Geneva, 1-9 December 2008  
Item 7 of the provisional agenda

**MISCELLANEOUS PROPOSALS OF AMENDMENTS TO THE MODEL REGULATIONS  
ON THE TRANSPORT OF DANGEROUS GOODS**

Salvage Pressure Receptacles

Transmitted by the expert from Germany<sup>1</sup>

**Introduction**

1. For salvage packagings, suitable provisions exist in 4.1.1.17 and Chapter 6.1 including marking in 6.1.3.12. Although the definition of a salvage packaging in 1.2.1 may also cover salvage pressure receptacles, for the latter no specific provisions exist in 4.1.1.17 and Chapter 6.2.

2. The intention of this document is to propose some general requirements like a definition, provisions for competent authority approval and marking as well as to add to the transport document information on such receptacles for identification during transport including filling and emptying. This information is important for personal for loading and transport as well as for unloading such salvage pressure receptacles for further treatment/disposal of the damaged or leaking pressure receptacles packed inside, which may require special precautionary and protective measures.

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<sup>1</sup> In accordance with the programme of work of the Sub-Committee for 2007-2008 approved by the Committee at its third session (refer to ST/SG/AC.10/C.3/60 para. 100 and ST/SG/AC.10/34, para. 14).

3. This proposal therefore does not address detailed technical requirements on the specific types of salvage pressure receptacles, as they may vary widely in design specifications and derogations from some technical requirements of Chapter 6.2; so for this step it does not seem to be appropriate to add detailed technical provisions. However, if the Sub-Committee so wishes, the expert from Germany would be happy to start work for a second step on some general technical requirements and would welcome comments and suggestions from other delegations. This second step should be regarded independently from the proposal contained in this document.

### Technical information

4. In order to transport pressure vessels (e.g. pressure receptacles), which no longer fully meet the requirements of Chapter 6.2 (e.g. damaged, defective, leaking or non-conforming cylinders or pressure drums), specially designed pressure equipment is used, which can be designated as salvage pressure receptacle. With regards to the design requirements, these salvage pressure receptacles must be clearly distinguished from salvage packagings. In order to be serviceable, salvage pressure receptacles are not able to meet all design requirements of Chapter 6.2 (e.g. restrictions on openings in the cylindrical part, flat heads).

5. In order to achieve a common understanding and general requirements, it is proposed to add a definition and general requirements for approval, marking and identification.

6. Taking into account all necessary specifications for salvage pressure receptacles, an approval as non UN-pressure receptacle according to 6.2.3 is deemed to be appropriate. This should be made transparent for transport by adding provisions to the transport document.

### Proposal (new text is underlined)

1. Add to 1.2.1:

“Salvage pressure receptacle means a special pressure receptacle into which are placed damaged, defective, leaking or non-conforming pressure vessels (e.g. pressure receptacles) with a water capacity not exceeding 1000 l for the purpose of transport for recovery or disposal.”

2. Insert a reference to salvage pressure receptacles in the definition of pressure receptacles in 1.2.1 in order to read:

“Pressure receptacle is a collective term that includes cylinders, tubes, pressure drums, closed cryogenic receptacles, bundles of cylinders and salvage pressure receptacles;”

3. Insert a new 2<sup>nd</sup> sentence in 4.1.1.17.1:

“In case of damaged, defective, leaking or non conforming pressure vessels (e.g. pressure receptacles), salvage pressure receptacles according to 6.2.3 may be used.”

4. Insert a reference to salvage pressure drums in 5.2.1.3 in order to read:  
  
“Salvage packagings and salvage pressure receptacles shall additionally be marked with the word “SALVAGE”.”
  5. Amend 5.4.1.5.3 to read:  
  
“For dangerous goods transported in salvage packagings or salvage pressure receptacles, the words “SALVAGE PACKAGING” or “SALVAGE PRESSURE RECEPTACLE” shall be included. In case of salvage pressure receptacles, a copy of the approval of the competent authority of the country having granted the approval, shall accompany the transport document.”
  6. Insert a reference to salvage pressure receptacles in 6.2.3.3 to read:  
  
“For metallic cylinders, tubes, pressure drums, bundles of cylinders and salvage pressure receptacles, the construction shall be such that the minimum burst ratio (burst pressure divided by test pressure) is: (...)” (remainder unchanged)
  7. Insert new paragraph 6.2.3.5 to read:  
  
“6.2.3.5 Salvage pressure receptacles  
  
The water capacity of a salvage pressure receptacle may exceed 1.000 l to the extent necessary for the transport of pressure vessels (e.g. pressure receptacles) with a water capacity of up to 1000 l. To permit the safe handling and disposal of the pressure vessels carried within, the design may include special equipment otherwise not allowed for cylinders or pressure drums like flat heads, quick opening devices and openings in the cylindrical part. For marking see 6.2.2.7.8.”
  8. Insert after 6.2.2.7.7:  
  
“6.2.2.7.8 The marking of salvage pressure receptacles according to 6.2.3 shall be determined by the competent authority in accordance with the requirements of 6.2.2.7 as appropriate. In addition, the marking shall include the maximum value of the test pressure multiplied by the water capacity of pressure vessels (e.g. receptacles) that are authorized to be transported inside the salvage pressure receptacle.”
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