

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

2 July 2012

Forty-first session

Geneva, 25 June – 4 July 2012

Item 7 of the provisional agenda

Cooperation with the International Atomic Energy Agency

Revised Text in Relation to UN/SCETDG/41/INF.52

Transmitted by the secretariat expert from the United States of America

~~The below proposed text reflects the amendments agreed to by the working group which met on 28 June to consider UN/SCETDG/41/INF.52. The working group agreed to modify the proper shipping name by deleting the words “radioactive material, excepted package” and made additional structural changes as the provisions for excepted packages are no longer completely applicable due to the introduction of P701. The Sub-Committee is invited to consider which class (7 or 8) should be shown as the primary hazard in the dangerous goods list, noting that the provisions proposed for adoption will not require the Class 7 hazard to be reflected on the transport document, marking or package label.~~

~~*Note: to the Secretariat: Special Provision 325 is retained for all other existing entries in column 6. It is only deleted in relation to UN 2910*~~

The secretariat has prepared the following revised text pursuant to the discussions that took place in Plenary session on 29 July

Proposed text

Chapter 2.0

Chapter 2.7

Table 2.7.2.1.1, add the following new entry after UN 2978:

"UN 3507 URANIUM HEXAFLUORIDE, less than 0.1 kg per package, non-fissile or fissile-excepted".

Insert ~~Add~~ a new 2.7.2.4.1.57 to read as follows:

"2.7.2.4.1.57 Uranium hexafluoride with less than 0.1 kg per package, not exceeding the limits specified in column 4 of Table 2.7.2.4.1.2 per package may be classified under UN 3507 URANIUM HEXAFLUORIDE, less than 0.1 kg per package, non-fissile or fissile-excepted, provided that the conditions of 2.7.2.4.1.4 (a) and (b) are met.".

Renumber existing 2.7.2.4.1.5 as 2.7.2.4.1.7

2.7.2.4.5 Amend to read as follows:

"2.7.2.4.5 *Classification of uranium hexafluoride*

2.7.2.4.5.1 Uranium hexafluoride shall only be assigned to:

- (a) UN No 2977, RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, FISSILE;
- (b) UN No 2978, RADIOACTIVE MATERIAL, URANIUM HEXAFLUORIDE, non-fissile or fissile-excepted; or
- (c) UN No 3507, URANIUM HEXAFLUORIDE, less than 0.1 kg per package, non-fissile or fissile-excepted.

2.7.2.4.5.2 The contents of a package containing uranium hexafluoride shall comply with the following requirements:

- (a) For UN Nos 2977 and 2978, the mass of uranium hexafluoride shall not be different from that allowed for the package design, and for UN 3507, the mass of uranium hexafluoride shall be less than 0.1 kg;
- (b) The mass of uranium hexafluoride shall not be greater than a value that would lead to an ullage smaller than 5% at the maximum temperature of the package as specified for the plant systems where the package shall be used; and
- (c) The uranium hexafluoride shall be in solid form and the internal pressure shall not be above atmospheric pressure when presented for transport."

Chapter 3.2, Dangerous goods list

For UN 2910 Delete "325" and insert "368" in column (6).

Add the following new entry:

UN No.	Name and description	Class	Subsidiary risk	PG	SP	Limited Quantity	Excepted Quantity	Packing Instruction
3507	URANIUM HEXAFLUORIDE, less than 0.1 kg per package, non-fissile or fissile-excepted	7	8	I	317 369	0	E0	P701

Chapter 3.3

Add the following new special provisions:

"368 In the case of non-fissile or fissile-excepted uranium hexafluoride, the material shall be classified under UN 3507 or UN 2978."

"369 The following provisions apply to uranium hexafluoride assigned to UN 3507:

- (1) The package shall be marked in accordance with 2.7.2.4.1.4(b), 5.2.1.1 and 5.2.1.2;
- (2) Labelling for Class 7 is not required, however the package shall be labelled with a "CORROSIVE" label (Model No 8, see 5.2.2.2.2);
- (3) Class 7 shall not be indicated in documentation. All other provisions of 5.4 apply, except for the requirements of 5.4.1.5.7; and
- (4) The specific provisions for Class 7 shall not apply except for the following: 1.5.1, 2.7, 4.1.9.1.2, 4.1.9.1.4, 4.1.9.1.7, 5.1.3.2, 6.4.2, 6.4.3, and 7.1.8.5.2.

All other applicable provisions of these Regulations shall apply.

Alternative text for SP 369 proposed by the secretariat (Reasoning: the above text does not seem to cover all provisions that are applicable to excepted packages, and does not make it clear that all provisions that would be applicable to a substance of Class 8, PG I have also to be complied with.

369 Uranium hexafluoride, less than 0.1 kg per package, non-fissile or fissile-excepted, may be carried under this entry provided that the conditions of 2.7.2.4.1.5 are met.

Notwithstanding the provisions of 1.5.1.5.1 concerning the transport of radioactive material in excepted packages, and those of 2.0.3.2, last sentence, and special provision 290 of this Chapter concerning radioactive material in excepted packages possessing other hazards, the transport of this substance under this entry is only subject to the following provisions of these Regulations:

Part 1, except section 1.5.1.5;

Part 2, only Chapter 2.0, except last sentence of 2.0.3.2, and chapters 2.7 and 2.8;

Note: Notwithstanding the provisions of 2.0.1.3, this substance is assigned Packing Group I due to its corrosive properties

Part 3:

Chapter 4.1, including section 4.1.9 as relevant for excepted packages of radioactive material;

Chapter 5.1, except 5.1.5.4;

Chapter 5.2, except 5.2.1.5.2, and except that the only label required is that of model No.8;

Chapter 5.3, except that the only placard required is that corresponding to label model No.8;

Chapter 5.4, except that the only description of the goods in the transport document shall be "UN 3507 uranium hexafluoride,(8),I"

Chapters 6.1 and Chapter 6.4, sections 6.4.2, 6.4.3, paragraph 6.4.6.1, first sentence, and 6.4.11.1 to 6.4.11.3 if relevant;

Chapter 7.1, sections 7.1.1 to 7.1.7, paragraphs 7.1.8.3.1, 7.8.5.1 to 7.1.8.5.4, and 7.1.8.6.1, and sections 7.1.9 and 7.1.10;

Chapter 7.2, except section 7.2.3

Chapter 4.1

4.1.4.1 Add the following new packing instruction:

P701	PACKING INSTRUCTION	P701
This instruction applies to UN 3507.		
<p>The following packagings are authorized provided that the general provisions of 4.1.1, 4.1.3, 4.1.9.1.2, 4.1.9.1.4 and 4.1.9.1.7 applicable to packages for radioactive material are met:</p> <p>Combination packagings consisting of:</p> <p>(a) Metal or plastic primary inner receptacle(s);</p> <p>(b) Leakproof rigid secondary packaging(s);</p> <p>(c) Outer packagings:</p> <p>Drums (1A2, 1B2, 1N2, 1H2, 1D, 1G);</p> <p>Boxes (4A, 4B, 4C1, 4C2, 4D, 4F, 4G, 4H1, 4H2);</p> <p>Jerricans (3A2, 3B2, 3H2).</p> <p>The following requirements shall be met:</p> <p>(1) Primary inner receptacles containing uranium hexafluoride shall be packed in secondary packagings in a way that, under normal conditions of transport, they cannot break, be punctured or leak their contents into the secondary packaging. Secondary packagings shall be secured in outer packagings with suitable cushioning material to prevent movement. If multiple primary receptacles are placed in a single secondary packaging, they shall be either individually wrapped or separated so as to prevent contact between them; and</p> <p>(2) In the case of fissile material, limits specified in 2.7.2.3.5 and 6.4.11.2 shall be met.</p>		