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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****Forty-fifth session**

Geneva, 23 June – 2 July 2014

Item 7 (b) of the provisional agenda

**Miscellaneous proposals for amendments to the Model Regulations  
on the Transport of Dangerous Goods:  
articles containing small quantities of dangerous goods****Articles containing small quantities of dangerous goods****Transmitted by the expert from the United Kingdom<sup>1</sup>**

1. At the forty-fourth session, the United Kingdom presented informal document INF.36 which set out a number alternative options for addressing articles containing small quantities of dangerous goods within the Model Regulations. These options were as follows:

- Option 1 – The approach outlined in the United Kingdom paper ST/SG/AC.10/C.3/2013/20 (articles divided into single Class groups with subsidiary risk labels as necessary, or divided into groups for single or multiple Classes); or
- Option 2 – Clarifying the scope of UN3363 by amending Special Provision 301 (and P907) to include ‘articles’ which would then divide it into four sub-categories depending on the amount of dangerous goods contained within the article/machinery/apparatus; or
- Option 3 – An approach which does not attempt to define articles or equipment but looks at the underlying purpose behind the transport operation and the percentage of dangerous goods within the mass of the article; or
- Option 4 – A review of the use or definition of terms such as machinery, equipment, apparatus, means of containment etc. to clarify what is meant and to identify

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<sup>1</sup> In accordance with the programme of work of the Sub-Committee for 2013-2014 approved by the Committee at its sixth session (refer to ST/SG/AC.10/C.3/84, para. 86 and ST/SG/AC.10/40, para. 14).

whether a gap is then left that might be addressed by just one other new entry in the Dangerous Goods List; or

- Option 5 – Do nothing at present and continue to have an ad-hoc approach to the assignment of articles containing small quantities of dangerous goods.

2. The conclusion of the discussion on which option the Sub-Committee preferred is captured in the official report of the last session (see paragraph 47 of ST/SG/AC.10/C.3/88) which clearly indicates that the preference for the way forward is to base future developments on Option 2. This paper therefore has developed this approach and presents below text for further consideration and adoption in principle in order to be able to offer a final text and any necessary consequential amendments for adoption at the next session.

## Proposal

3. Amend the proper shipping name for UN3363 in the Dangerous Goods List of Chapter 3.2 as follows (new text underlined):

“3363 Dangerous goods in machinery or dangerous goods in apparatus or dangerous goods in articles, N.O.S., Type 1 [Type 2, Type 3]”

(Amendment would also need to be made to the alphabetical index, to Appendix A, List of Generic and N.O.S. Proper Shipping Names and to Chapter 2.9)

4. Assign special provision XXX to UN3363, [Type 3] in Column 6 of the Dangerous Goods List of Chapter 3.2

5. Assign special provision 301 to UN3363, Type 1, Type 2 and Type 3 in Column 6 of the Dangerous Goods List of Chapter 3.2

6. Amend special provision 301 in Chapter 3.3 as follows (new text underlined):

“301 This entry only applies to machinery, articles or apparatus containing dangerous substances as a residue or an integral element of the machinery, article or apparatus. It shall not be used for machinery, articles or apparatus for which a proper shipping name already exists in the Dangerous Goods List of Chapter 3.2. Machinery, articles and apparatus transported under this entry shall only contain dangerous goods in accordance with the following provisions:

Type 1 – where the limited quantity amount is zero in Column 7a) of the Dangerous Goods List. Carriage is permitted only with approval of the competent authority. [For transport by air an exemption granted by the States of origin, operator, transit, destination and overflight is required.]

Type 2 – those which are permitted ~~authorized~~ to be transported in accordance with the provisions of Chapter 3.4 (Limited quantities). The quantity of dangerous goods in machinery, articles or apparatus shall not exceed the quantity specified in Column 7a of the Dangerous Goods List of Chapter 3.2 for each item of dangerous goods contained. If the machinery, article or apparatus contains more than one item of dangerous goods, the individual substances shall not be capable of reacting dangerously with one another (see 4.1.1.6). When it is required to ensure liquid dangerous goods remain in their intended orientation, ~~package~~ orientation labels meeting the specifications of ISO 780:1997 shall be affixed and visible on at least two opposite vertical sides where possible, with the arrows pointing in the correct upright direction.

Type 3 – Where the quantity of any of the dangerous goods present is in excess of the limited quantity amount in Column 7a) of the Dangerous Goods List where that

amount is greater than zero. Transport is permitted only when, in addition to the Class 9 label, the Class labels indicated in column 3 of the Dangerous Goods List appropriate to the substance(s) present within the machinery, article or apparatus are applied to the machinery, article or apparatus or its packaging.

*NOTE: When different Types are present within a single machine, article or apparatus, Type 1 provisions take precedence over Type 2 and 3.*

7. Add a new Special Provision XXX in Chapter 3.3 as follows:

“SPXXX The proper shipping name shall be supplemented with the technical name for all substances present. Articles containing UN 3077 or UN 3082 are not subject to these regulations.”

~~The competent authority may exempt from regulation machinery or apparatus which would otherwise be transported under this entry. The transport of dangerous goods in machinery or apparatus where the quantity of dangerous goods exceeds the quantity specified in Column 7a of the Dangerous Goods List of Chapter 3.2 is authorized when approved by the competent authority, except where special provision 363 applies.”~~

8. Add P907 to UN3363 Type 2 and Type 3 in column 8 of the Dangerous Goods List in Chapter 3.2

9. Amend packing instruction P907 in 4.1.4.1 as follows (new text underlined):

“P907

If the machinery, article or apparatus is constructed and designed so that the receptacles containing the dangerous goods are afforded adequate protection, an outer packaging is not required. Dangerous goods in machinery, articles or apparatus shall otherwise be packed in outer packagings constructed of suitable material, and of adequate strength and design in relation to the packaging capacity and its intended use, and meeting the applicable requirements of 4.1.1.1.

Receptacles containing dangerous goods shall conform to the general provisions in 4.1.1, except that 4.1.1.3, 4.1.1.4, 4.1.1.12 and 4.1.1.14 do not apply. For Division 2.2 gases, the inner cylinder or receptacle, its contents and filling density shall be to the satisfaction of the competent authority of the country in which the cylinder or receptacle is filled.

In addition, the manner in which receptacles are contained within the machinery, article or apparatus, shall be such that under normal conditions of transport, damage to receptacles containing the dangerous goods is unlikely; and in the event of damage to receptacles containing solid or liquid dangerous goods, no leakage of the dangerous goods from the machinery, article or apparatus is possible (a leakproof liner may be used to satisfy this requirement). Receptacles containing dangerous goods shall be so installed, secured or cushioned as to prevent their breakage or leakage and so as to control their movement within the machinery, article or apparatus during normal conditions of transport. Cushioning material shall not react dangerously with the content of the receptacles. Any leakage of the contents shall not substantially impair the protective properties of the cushioning material.”

10. Add a new paragraph to 5.4.1.5 as follows:

“5.4.1.5.11 *Dangerous goods assigned to UN3363*

In addition to the Proper Shipping Name, the transport document shall additionally bear the appropriate Class number(s) for all of the dangerous goods present, for example:

UN3363, DANGEROUS GOODS IN MACHINERY, N.O.S. Type 3 (Potassium Hydrogendifluoride Solid (8) and Sodium Fluoride, Solid (6.1)), 9 or;

UN3363, DANGEROUS GOODS IN AN ARTICLE, N.O.S Type 3 (Potassium Hydrogendifluoride Solid (8) and Sodium Fluoride, Solid (6.1)) 9 or;

UN3363, DANGEROUS GOODS IN APPARATUS, N.O.S Type 3 (Potassium Hydrogendifluoride Solid (8) and Sodium Fluoride, Solid (6.1)) 9”.

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