



Secretariat

Distr.  
GENERAL

ST/SG/AC.10/C.3/2006/54  
13 April 2006

Original: ENGLISH

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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

Twenty-ninth session  
Geneva, 3-12 (a.m.) July 2006  
Item 11 of the provisional agenda

**GUIDING PRINCIPLES FOR THE MODEL REGULATIONS**

Relation between classification of dangerous goods and conditions of transport

Transmitted by the expert from the Netherlands

**Introduction**

1. In the discussions in the Sub-Committee on the Guiding Principles related to the various parts of the Model Regulations, the expert from the Netherlands announced that he would submit a document on the systematic assignment of dangerous goods to classes/divisions according to the classification criteria and on a systematic presentation of the dangerous goods list (see ST/SG/AC.10/C.3/46, para. 95).

2. The expert from the Netherlands had presented the systematic dangerous goods list, based on the thirteenth edition of the Model Regulations in document ST/SG/AC.10/C.3/2004/69. See also the report ST/SG/AC.10/C.3/50, para. 107.

3. The expert from the Netherlands has updated this list on the basis of the fourteenth revised edition of the Model Regulations, and the updated list is reproduced as an addendum to this document.

*Note by the secretariat: Due to constraints related to the lay-out and formatting of official documents, the addendum is reproduced in English and French in informal document INF.4.*

**Explanation of the systematic list**

4. The grouping of entries has been done according to the following steps:

**Step 1.** The entries in the systematic dangerous goods list have been grouped according to the following criteria:

- Class or division
- Subsidiary risk, e.g. :

Class 3 Flammable liquids without subsidiary risk

Class 3 Flammable liquids with subsidiary risk toxic

Class 3 Flammable liquids with subsidiary risk corrosive

Class 3 Flammable liquids with subsidiary risk toxic and corrosive

**Step 2.** Within these groups of substances, containing goods with the same classification, a further grouping, where applicable, is made, according to the specific n.o.s. entries and general n.o.s. entries, as defined in 2.0.2.2 (c) and (d), e.g.:

Class 3, flammable liquids.

Flammable liquids without subsidiary risk

- |   |            |
|---|------------|
| - Petroleum distillates or petroleum products | I, II, III |
| - Hydrocarbons                                | I, II, III |
| - Alcohols                                    | II, III    |
| - Aldehydes                                   | I, II, III |
| - Ketones                                     | II, III    |
| - Ethers                                      | I, II, III |
| - Esters                                      | I, II, III |
| - Mercaptans                                  | I, II, III |

Flammable liquids which cannot be assigned to these specific groups are assigned to the more general group:

- |                              |            |
|------------------------------|------------|
| - Other flammable substances | I, II, III |
|------------------------------|------------|

**Step 3.** The entries within each group as a result of step 2 are grouped according to the packing group (PG) and consists of the single and generic entries, followed by the **specific** n.o.s. entry for that group of substances or articles of a particular chemical or technical nature e.g:

Hydrocarbons PG I:

1108	1-PENTENE
1144	CROTONYLENE
1218	ISOPRENE, STABILIZED
1265	PENTANES, liquid
2371	ISOPENTANES
2459	2-METHYL-1-BUTENE
2561	3-METHYL-1-BUTENE
3295	HYDROCARBONS, LIQUID, N.O.S.

Followed by the hydrocarbons of PG II and subsequently by the hydrocarbons of PG III

The group 'other flammable substances' ends with the **general** n.o.s.entry, e.g.:

1993 FLAMMABLE LIQUID, N.O.S.

**Purpose of the list**

5. The expert from the Netherlands is of the opinion that this Table serves the following purposes:

- (a) The table shows the relation between groups of substances with the same hazards (classification) and the condition of transport;
- (b) It enables the Sub-Committee to screen the Dangerous Goods List and identify possible missing or superfluous entries;
- (c) It gives the Sub-Committee the possibility to apply the rationalized approach to all conditions of transport, including tank instructions, packing instructions, special provisions and limited quantities;
- (d) Proposals for conditions of transport for individual entries may be assessed by comparing the proposal with the existing conditions for the group of substances;
- (e) It is an excellent tool for the user to assign new substances to the appropriate generic, specific n.o.s. or general n.o.s. entry;
- (f) Users of the Model Regulations, like portable tank operators, packaging manufacturers, instructors according to chapter 1.3, will have a useful tool to find out for which groups of substances certain tank types or packaging types, including applicable special provisions, may be used.

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