

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-eighth session
Geneva, 28 November – 7 December 2005
Item 4 of the provisional agenda

LIMITED QUANTITIES

Excepted quantities

Transmitted by the expert from the United Kingdom

1. Document ST/SG/AC.10/C.3/2005/42 submitted by the expert from the United Kingdom was discussed during the most recent session of the ICAO Dangerous Goods Panel. As a result of that discussion it became evident the some improvements could be made to the proposal from the United Kingdom. It was also felt that it would be helpful in consideration of the paper by the Sub-Committee if a table of comparison between substances and quantities permitted for transport as excepted quantities in the existing ICAO TI provisions and those now proposed for multi-modal transport in the UN Model Regulations could be provided. Such a table is attached at Annex A. The United Kingdom proposal for table X.1.1 remains as shown in ST/SG/AC.10/C.32005/42.
2. It was also pointed out that the United Kingdom proposal did not address the issue of more than one Class or Division of dangerous goods being packaged together in excepted quantities. The current ICAO TIs have a rather complex calculation method to determine what quantity of substances may be permitted when packaged together. The expert from the United Kingdom suggests that it would be better in multi-modal transport to adopt a simpler regime. He therefore proposes that the most restrictive provisions for any substance when packed together with others should take precedence. Thus if a Class 3 substance of PG II (inner limit of 30 ml, outer limit of 500 ml) is packaged together with a Class 3 substance of PG III (inner 30 ml, outer 1 litre) then the quantity limit for the package should be 30 ml for the inner of both substances, with an outer packaging limit of 500 ml.
3. The expert from the United Kingdom therefore proposes additional text as follows:

“X.1.3 Where substances of more than one Class or Division are packaged together, or substances of more than one Packing Group within the same Class or Division are packaged together the quantity limits for both inner and outer packagings for all substances shall be those for the substance which has the most restrictive limits.”

Subsequent paragraphs to be re-numbered accordingly.

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Annex

Excepted Quantity (Limits) Inner and Outer Packaging

| | UK Proposal 2005/42 | | | | | | ICAO/IATA LIMITS PACKING GROUP OF THE SUBSTANCE ^a | | | | | | |
|------------------------------------|---|------------|----------|------------|----------|--------|---|--------|------------------|-----------------|-------------------|-------------|-------|
| | PGI | | PGII | | PGIII | | PACKING GROUP I | | PACKING GROUP II | | PACKING GROUP III | | |
| | Inner | Outer | Inner | Outer | Inner | Outer | Packagings | | Packagings | | Packagings | | |
| | | | | | | Inner | Outer | Inner | Outer | Inner | Outer | Inner | Outer |
| 1: | Not permitted | | | | | | Forbidden | | | | | | |
| 2.1: | Not permitted | | | | | | Forbidden | | | | | | |
| 2.2: ^U | 30ml 1L | | | | | | See Note ^b | | | | | | |
| 2.3: | Not permitted | | | | | | Forbidden | | | | | | |
| 3: ^V | 30ml | 300ml | 30ml | 500ml | 30ml | 1L | 30 mL | 300 mL | 30 mL | 500 mL | 30 mL | 1 L | |
| 3SRisk | Not permitted | | 30ml | 500ml | 30ml | 1L | | | | | | | |
| 4.1: ^W | Self -reactive substances and desensitised explosives not permitted | | | | | | Forbidden | | Forbidden | | Forbidden | | |
| 4.1: | Not permitted | | 30g | 500g | 30g | 1kg | Forbidden | | 30 g | 500 g | 30 g | 1 kg | |
| 4.2: | Not permitted (pyrophoric) | | | | | | Forbidden | | Not Applicable | | Not Applicable | | |
| 4.2: | Not permitted | | 30g | 500g | 30g | 1kg | Not Applicable | | 30 g | 500 g | 30 g | 1 kg | |
| 4.3: | Not permitted | | 30g/30ml | 500g/500ml | 30g/30ml | 1kg/1L | Forbidden | | 30 g or 30 mL | 500 g or 500 mL | 30 g or 30 mL | 1 kg or 1 L | |
| 5.1: | Not permitted | | 30g/30ml | 500g/500ml | 30g/30ml | 1kg/1L | Forbidden | | 30 g or 30 mL | 500 g or 500 mL | 30 g or 30 mL | 1 kg or 1 L | |
| 5.2 ^c ^X : | 30g/30ml | 500g/500ml | 30g/30ml | 500g/500ml | 30g/30ml | 1kg/1L | Not Applicable | | 30 g or 30 mL | 500 g or 250 mL | Not Applicable | | |

| | UK Proposal 2005/42 | | | | | | ICAO/IATA LIMITS PACKING GROUP OF THE SUBSTANCE ^a | | | | | |
|--------------------|---------------------|--------------------|--------------|--------------------|--------------|--------|---|--------------------|------------------|--------------------|-------------------|----------------|
| | PGI | | PGII | | PGIII | | PACKING GROUP I | | PACKING GROUP II | | PACKING GROUP III | |
| 6.1: Tih | 1g/1 ml | 300g/ 300m l | 1g/1 ml | 500g/ 500m l | 30g/3 0ml | 1kg/1L | Forbidden | | 1 g or 1 mL | 500 g or 500 mL | 30 g or 30 mL | 1 kg or 1 L |
| 6.1: oral | 1g/1 ml | 300g/ 300m l | 1g/1 ml | 500g/ 500m l | 30g/3 0ml | 1kg/1L | 1 g or 1 mL | 300 g or 300 mL | 1 g or 1 mL | 500 g or 500 mL | 30 g or 30 mL | 1 kg or 1 L |
| 6.1: derm al | 1g/1 ml | 300g/ 300m l | 1g/1 ml | 500g/ 500m l | 30g/3 0ml | 1kg/1L | 1 g or 1 mL | 300 g or 300 mL | 1 g or 1 mL | 500 g or 500 mL | 30 g or 30 mL | 1 kg or 1 L |
| 6.2: | Not permitted | | | | | | Forbidden | | | | | |
| 7 ^d : | Not permitted | | | | | | Forbidden | | | | | |
| 8 ^{e,y} : | Not permitted | | 30g/3 0ml | 500g/ 500m l | 30g/3 0ml | 1kg/1L | Forbidden | | 30 g or 30 mL | 500 g or 500 mL | 30 g or 30 mL | 1 kg or 1 L |
| 9: | Not applicable | | 30g/3 0ml | 500g/ 500m l | 30g/3 0ml | 1kg/1L | Forbidden | | | | | |
| 9 ^f : | Not applicable | | 30g/3 0ml | 500g/ 500m l | 30g/3 0ml | 1kg/1L | Not Applicable | | 30 g or 30 mL | 500 g or 500 mL | 30 g or 30 mL | 1 kg or 1 L |

ICAO NOTES:

The more restrictive quantity required by either the primary risk

- ^a The more restrictive quantity required by either the primary or subsidiary risk or where a Division 6.1 subsidiary risk label is required.
- ^b For inner packagings, the quantity contained in receptacle with a water capacity of 30 mL. For outer packagings, the sum of the water capacities of all the inner packagings contained must not exceed 1 L.
- ^c Applies only to Organic Peroxides when contained in a chemical kit or a first aid kit.
- ^d See 10.5.9 radioactive material in excepted packages.
- ^e UN 2803 and UN 2809 are not permitted in Excepted Quantities.
- ^f For substances in Class 9 for which no packing group is indicated in the List of Dangerous Goods, Packing Group II quantities must be used.

UN Notes from 2005/42

- U For gases, the volume indicated for inner packagings refers to the water capacity of the inner receptacle and the volume indicated for outer packagings refers to the combined water capacity of all inner packagings within a single outer package.
- V Desensitized explosives shall not be transported as excepted quantities
- W Self reactive substances and desensitised explosives shall not be transported as excepted quantities
- X Division 5.2 dangerous goods shall ONLY be transported as excepted quantities if in UN 3316, chemical kit or First aid kit
- Y UN Nos 2803 and 2809 shall not be transported as excepted quantities

