

**COMMITTEE OF EXPERTS ON THE TRANSPORT  
OF DANGEROUS GOODS**

(Twenty-first session,  
4-13 December 2000,  
agenda item 2 (b))

**WORK OF THE SUB-COMMITTEE OF EXPERTS  
ON THE TRANSPORT OF DANGEROUS GOODS**

**Draft amendments to the Recommendations on the Transport of Dangerous Goods**

**Listing and Classification**

**Proposals for amending ammonium nitrate entries**

**Transmitted by the expert from Germany**

**Background**

The Sub-Committee of Experts on the Transport of Dangerous Goods discussed, at its eighteenth session, document ST/SG/AC.10/C.3/2000/45 submitted by Canada, United States of America and the representative from the European Fertilizer Manufacturers Association (EFMA) and decided to delete the UN Nos. 0223, 2068, 2069, 2070 and 2072. The special provision 306 was added for UN No. 1942 and the special provisions 186, 306 and 307 were added for UN No. 2067.

In the 11th revised edition of the Recommendations on the Transport of Dangerous Goods the ammonium nitrate fertilizers were assigned without testing and due to their composition in Class 5.1 to the UN Nos. 2067, 2068, 2069 and 2070. The decision of the Sub-Committee of Experts on the Transport of Dangerous Goods, at its eighteenth session, to delete all these UN Nos. except UN No. 2067 and to provide for UN No. 2067 the special provisions 306 and 307 (tests and composition of the mixtures) lead to the speculation that only the mixtures described in special provision 307 and only after testing them they should be assigned to UN No. 2067. If this interpretation is right the ammonium nitrate mixtures tested and approved in Germany, which do not coincide with the mixtures as being described in special provision 307, shall not be assigned to UN No. 2067.

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Therefore, Germany proposes that the ammonium nitrate mixtures tested and approved in Germany should be implemented in the special provision 307.

### **Proposal**

For UN No. 2067 letter d) shall be added to special provision 307 and should read as follows:

1. "d) other mixtures of ammonium nitrate with less than 90% but more than 70% ammonium nitrate (e.g. mixtures containing potassium chloride, ammonium phosphate, ammonium sulphate) or mixtures of ammonium nitrate and ammonium sulphate with more than 45% but less than 70% ammonium nitrate and more than 0.4% total combustible/organic material calculated as carbon"
2. In the first sentence of special provision 307 the term "uniform mixtures" should be amended to "uniform non-segregating mixtures".

### **Reasoning**

In Germany ammonium nitrate mixtures containing **incompatible materials** like potassium chloride, ammonium phosphate, ammonium sulphate with more than 70% ammonium nitrate **up to 90%** have been tested successfully and according to the test results a classification in class 5.1 is justified. Furthermore mixtures of ammonium sulphate with more than 45% but not more than 70% ammonium nitrate and **more than 0.4% total combustible/organic material calculated as carbon** have been tested too. For these mixtures a classification in class 5.1 is also applicable.

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