

**Sub-Committee of Experts on the  
Transport of Dangerous Goods**  
(Nineteenth session,  
2-6 July 2001, agenda item 8(b))

## EXPLOSIVES, SELF-REACTIVE SUBSTANCES AND ORGANIC PEROXIDES

### Classification of ammonium nitrate emulsions, suspensions and gels

#### New entry for ammonium nitrate emulsions in Class 1

#### Transmitted by the expert from Sweden

### 1. BACKGROUND

During the Madrid Working Group, 18-20 April 2001, on classification of Ammonium Nitrate Emulsions, suspensions or gels, intermediate for blasting explosives (ANE:s), a number of changes were proposed on the entry for UN 3375.

These changes affect our earlier document ST/SG/AC.10/C.3/2001/23. Therefore the author proposes some modifications of the earlier proposal using the documents ST/SG/AC.10/C.3/2001/6 (chairman WG) and ST/SG/AC.10/C.3/2001/19 (UK)

### 2. MODIFIED PROPOSALS

#### 2.1 To create a new entry in 1.5 D as follows:

UN No.	Name and description	Class or Division	Subsidiary risk	UN packing group	Special provisions	Limited quantities	Packagings and IBC's		Portable tanks	
							Packing instruction (8)	Special provision (9)	PT instruction (10)	PT special provision (11)
(1)	(2)	(3)	(4)	(5)	(6)	(7)				
05xy	AMMONIUM NITRATE EMULSION or SUSPENSION or GEL, intermediate for blasting explosives	1.5	D	II	3XX 3XY	NONE	P101 IBC99		T99	TP9

#### 2.2 Create a new special provision 3XY as follows:

This entry may only be used for substances that do not pass the 8(b), 8(c) or 8(d) tests and that passes the demands in Test Series 5 (see *Manual of Tests and Criteria*, Part I).

**2.3 Create a new special provision 3XX as follows:**

This entry applies to non sensitised emulsions, suspensions and gels consisting primarily of a mixture of ammonium nitrate and a fuel phase, intended to produce a Type E blasting explosive only after further processing prior to use. The mixture typically has the following composition:  
60 - 85 % ammonium nitrate; 5 - 30% water; 2 - 8% fuel; 0.5 - 4 % emulsifier or thickening agent; 0 - 10 % soluble flame suppressants and trace additives. Other inorganic nitrate salts may replace part of the ammonium nitrate.

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