

**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

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Item 2 (f) of the provisional agenda

Explosives and related matters: miscellaneous

**Revision of the specification for rockets in the default
fireworks classification table (sect. 2.1.3.5.5)**

Transmitted by the expert from Germany

Introduction

1. The specification for the assignment to division 1.4 and compatibility group G for rockets according to section 2.1.3.5.5 default fireworks classification table is as follows:

≤ 20 g pyrotechnic composition, black powder bursting charge and ≤ 0.13 g flash composition per report and ≤ 1 g in total.

2.1.3.5.5 Default fireworks classification table:

Rocket	Avalanche rocket, signal rocket, whistling rocket, bottle rocket, sky rocket, missile type rocket, table rocket	Tube containing pyrotechnic composition and/or pyrotechnic units, equipped with stick(s) or other means for stabilization of flight, and designed to be propelled into the air	Flash composition effects only	1.1G
			Flash composition > 25% of the pyrotechnic composition	1.1G
			> 20 g pyrotechnic composition and flash composition ≤ 25%	1.3G
			≤ 20 g pyrotechnic composition, black powder bursting charge and ≤ 0.13 g flash composition per report and ≤ 1 g in total	1.4G

2. The specification “black powder bursting charge and ≤ 0.13 g flash composition per report and ≤ 1 g in total” is hardly ever found in practice. In some cases the bursting charge does not only contain black powder, but can also be composed of flash composition or other pyrotechnic compositions. Rockets usually contain one report, but not several reports. Therefore, the specification is not very practical and often leads to difficulties when applied.

Proposal

3. It is proposed to simplify the specification for rockets to be classified as 1.4G and to set the following limits: ≤ 20 g pyrotechnic composition and ≤ 1 g flash composition.

2.1.3.5.5 Default fireworks classification table (amendments underlined):

Rocket	Avalanche rocket, signal rocket, whistling rocket, bottle rocket, sky rocket, missile type rocket, table rocket	Tube containing pyrotechnic composition and/or pyrotechnic units, equipped with stick(s) or other means for stabilization of flight, and designed to be propelled into the air	Flash composition effects only	1.1G
			Flash composition > 25% of the pyrotechnic composition	1.1G
			> 20 g pyrotechnic composition and flash composition ≤ 25%	1.3G
			<u>≤ 20 g pyrotechnic composition, and < 1g flash composition</u>	1.4G

4 The change does not affect the classification and experience at the German testing institute shows that the 1.4G-classification with the simplified limit is appropriate.