

COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS AND ON THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

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EXPLOSIVES, SELF-REACTIVE SUBSTANCES AND ORGANIC PEROXIDES

Classification criteria for fireworks

Transmitted by the expert from Spain

Introduction

Spain is an important producer and consumer of fuse bangers and banger batteries with higher mass than the ones included in the “firecracker” type. Bangers and batteries for either final consumer or professional use are included.

Objective of this proposal

Default classification of banger and banger batteries

Background

Fuse bangers for public and adult use are limited up to 3g of pyrotechnic mass per unit. In the case of banger batteries, the category (for public or professional use) depends on the pyrotechnic mass content; limits for public use are the following: 0,5 g (intermediate report units) and 15 g (final report unit). Bangers and banger batteries with higher mass are for professional use.

Preliminary tests carried out on two sorts of fuse bangers authorised on the Spanish market (wrapped and packed) show neither mass explosion nor projections against the witness screens.

We consider these results reveal basic information to support our proposal. 6 c tests have been envisaged to endorse the top mass to assign it among the proposed risk divisions.

Proposal

Type		Definition	Weight	HD
Banger and Bangers batteries	Banger	Device that consist of a non-metallic tube containing oxidizing substance and metal fuel as pyrotechnic composition, intended to produce noise	> 40 g >3 and ≤ 40 g ≤ 3 g	1.1G 1.3G 1.4G
	Bangers batteries	Assembly including several intermediate bangers and a final one (more powerful than the ones before), altogether connected to one point ignition, intended to produce a sequence of single detonations.	> 120 g (or each unit > 15 g) > 40 g and ≤ 120 g (or each unit ≤ 15 g and >5 g) ≤ 40 g (or each unit ≤ 5 g)	1.1G 1.3G 1.4G
