

Title (en)

Solid gas-generating composition and its application in gas generators for inflatable safety bags in motor vehicles.

Title (de)

Feste gaserzeugende Zusammensetzung und deren Anwendung in Gasgeneratoren für Airbags in Kraftfahrzeugen.

Title (fr)

Composition solide génératrice de gaz et son utilisation dans les générateurs de gaz pour coussins gonflables destinés à protéger les passagers d'un véhicule automobile.

Publication

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Application

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Priority

FR 8908224 A 19890621

Abstract (en)

[origin: US4976795A] The present invention relates to new pyrotechnic compositions generating nontoxic cold gases. The compositions according to the invention contain between 55% and 71% by weight of alkali or alkaline-earth metal azide, between 25% and 40% by weight of molybdenum sulphide and between 3% and 6% by weight of a binder consisting of the product of reaction of a polyglycidyl azide containing hydroxyl ends with at least one polyisocyanate. A preferred composition comprises 35% by weight of molybdenum sulphide, 60% by weight of sodium azide and 5% by weight of a binder obtained by reaction of a polyglycidyl azide containing OH hydroxyl ends of mass 2000 with the hexamethylene diisocyanate biuret trimer. The compositions according to the invention are much less sensitive to external attacks, and especially to moisture, than the conventional compositions based on azide and molybdenum sulphide. They are particularly suitable for the generators of nontoxic cold gases intended for inflating the safety cushions of motor vehicles.

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IPC 8 full level

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CPC (source: EP US)

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DE

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