

Title (en)

AUTOIGNITION COMPOSITIONS FOR INFLATOR GAS GENERATORS

Title (de)

SELBSTZÜNDUNGSZUSAMMENSETZUNGEN FÜR AIRBAG-GASGENERATOREN

Title (fr)

COMPOSITIONS A INFLAMMATION SPONTANEE POUR GENERATEURS DE GAZ DE DISPOSITIFS DE GONFLAGE

Publication

**EP 0944562 B1 20051123 (EN)**

Application

**EP 97937024 A 19970806**

Priority

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- US 90649697 A 19970805

Abstract (en)

[origin: WO9806683A1] An autoignition composition for the gas generator of a vehicle occupant restraint system that is thermally stable at temperatures up to 110 DEG C, autoignites between 150 DEG C and 175 DEG C, produces minimal toxic gases upon combustion, provides for a reduced gas inflator size, and can be safely produced using simple processing methods. By mixing an alkali metal nitrite with a nitrogen-based fuel, the resulting gas generants autoignite at or below 175 DEG C. The addition of an alkaline earth metal nitrite or nitrate provides the stability needed to additionally function as a booster and/or a gas generant.

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