

◆ **Passenger Safety Systems**

Most new and many older automobiles, light trucks and sport utility vehicles are equipped with any number of safety restraint systems including, but not limited to:

- driver-side air bag modules
- passenger-side air bag modules
- seat-belt pretensioners
- side-impact air bag modules
- knee, head and thorax air bags
- roll bars
- pedestrian protection systems



Most of these safety restraint systems use small amounts of explosives as igniters or blasting caps to initiate the safety device. In many cases, these passenger safety systems are also charged with a compressed gas under extreme pressure.

An air bag inflator (a casing containing an igniter, a booster material, a gas generant and, in some cases, a gas cylinder) is a gas generator used to inflate an air bag in a supplemental restraint system in a motor vehicle. An air bag module is the air bag inflator with an inflatable bag assembly.

A seat-belt pretensioner contains similar hazardous materials and is used in the seat-belt restraining system of a motor vehicle.



Air bag modules, seat-belt pretensioners, roll bars, active headrests and pedestrian protection systems may generally be described as one of the following:

- UN3268, SAFETY DEVICES, 9
- UN0503, SAFETY DEVICES, PYROTECHNIC, 1.4G
- UN0431, ARTICLES, PYROTECHNIC, 1.4G
- UN0432, ARTICLES, PYROTECHNIC, 1.4S
- UN0323, CARTRIDGES, POWER DEVICE, 1.4S



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Air bag modules, seat-belt pretensioners, roll bars, active headrests, and pedestrian protection systems (referred to collectively as safety restraint systems) must be properly marked and labeled, packaged in UN approved packagings, and declared for all modes of transport.



Safety restraint systems using explosive initiators or percussion caps will also be assigned an explosive registration number that must be noted on the hazardous materials shipping paper for all modes of transport.