



Dangerous Goods



Class 1: Explosive substances and articles

Risks



Which cargoes fall under this Class?

Label	Class 1 division	Examples
	Division 1.1 Mass explosion hazard.	Black powder, dynamite, mercury fulminate, nitro glycerine (desensitised), TNT, RDX and Styphnate.
	Division 1.2 Projection hazard but no mass explosion hazard.	Some types of ammunition, large display fireworks, large munitions, made up munitions.
	Division 1.3 Fire hazard and either a minor blast hazard or a minor projection hazard or both, but no mass explosion hazard.	Rocket propellant, sodium picramate, some liquid and solid propellants.
	Division 1.4 No significant hazard.	Consumer fireworks, toy caps, some small arms ammunition, car airbags and party poppers.
	Division 1.5 Very insensitive substances with mass explosion hazard.	Type E blasting agents, some type B blasting agents, very insensitive explosive substances.
	Division 1.6 Extremely insensitive articles with no mass explosion hazard.	Extremely insensitive explosive substances.

* Place on label for compatibility group

The United Nations Agreement Concerning the International Carriage of Goods by Road (ADR) section 2.2.1.1.6 also defines 13 compatibility groups of substances and articles to show which types of explosives can be packed together.

The table here highlights key takeaways for Class 1 cargoes.

Packing	
DO...	DON'T...
<ul style="list-style-type: none"> ▪ The correct packaging is important as it can affect classification ▪ Use protective packaging for Class 1 cargoes activated by electromagnetic radiation ▪ Use watertight packaging for soluble explosives ▪ Use metal packaging with a suitable coating or liner for loose metal explosives 	<ul style="list-style-type: none"> ▪ Use plastic packaging that might generate static electrical charges ▪ Use packaging that creates internal pressure ▪ Repackage Class 1 cargoes without specialist advice
Storing	
DO...	DON'T...
<ul style="list-style-type: none"> ▪ Store Class 1 cargoes in a way that minimises the risk to life, property and other cargo ▪ Assess, establish and follow documented procedures 	<ul style="list-style-type: none"> ▪ Store items which are incompatible with Class 1 cargoes in the same place ▪ Store near to stairways and emergency exits
Transporting	
DO...	DON'T...
<ul style="list-style-type: none"> ▪ Ensure suitable security arrangements are in place at every stage of transport ▪ Ensure everyone involved in transport has relevant dangerous goods awareness training ▪ Contact the designated dangerous goods competent person if you have any questions about transport ▪ Familiarise yourself with and adhere to the relevant chapters of the CTU Code 	<ul style="list-style-type: none"> ▪ Transport 'high consequence' cargoes without considering security provisions ▪ Transport military equipment with its means of explosion enabled ▪ Transport Class 1 cargoes with other cargoes that may react with them
Remember	
ALWAYS...	NEVER...
<ul style="list-style-type: none"> ▪ Conduct thorough due diligence of customers and contractors ▪ Communicate clearly with the entire supply chain ▪ Maintain a documented emergency response plan that is regularly tested and, ideally, developed in collaboration with the cargo manufacturer 	<ul style="list-style-type: none"> ▪ Throw, drop, roll, slide or drag Class 1 cargoes at any point in the supply chain ▪ Lift other cargoes over Class 1 cargoes ▪ Handle or load Class 1 cargoes in adverse weather conditions ▪ Disclose the presence of Class 1 cargoes beyond the personnel who need to know ▪ Ignore abandoned cargo – it must be safely removed and disposed of