


Appendix 1

The table shows general recommendations for the separation or segregation of different classes of dangerous substances

		CLASS	2	3	4	5	6	8				
COMPRESSED GASSES 2.1 Flammable 2.2 Non-flammable/non-toxic 2.3 Toxic	CLASS 2											
			KEEP APART	Segregate from OR KEEP APART	Segregate from	Segregate from	Segregate from	Segregate from	Segregate from	ISOLATE	KEEP APART	KEEP APART
			KEEP APART	KEEP APART	KEEP APART	Separation may not be necessary	Segregate from	Separation may not be necessary	Separation may not be necessary	Segregate from	Separation may not be necessary	KEEP APART
FLAMMABLE LIQUIDS	CLASS 3		Segregate from OR KEEP APART	KEEP APART	Segregate from	KEEP APART	Segregate from	KEEP APART	Separation may not be necessary	Segregate from	Separation may not be necessary	KEEP APART
			Segregate from	KEEP APART	Segregate from	KEEP APART	Segregate from	Segregate from	Segregate from	ISOLATE	KEEP APART	KEEP APART
FLAMMABLE SOLIDS 4.1 Readily combustible 4.2 Spontaneously combustible 4.3 Dangerous when wet	CLASS 4		Segregate from	Separation may not be necessary	KEEP APART	KEEP APART	KEEP APART	Segregate from	Segregate from	Segregate from	KEEP APART	Separation may not be necessary
			Segregate from	Segregate from	Segregate from	Segregate from	KEEP APART	KEEP APART	Segregate from	ISOLATE	KEEP APART	KEEP APART
			Segregate from	Separation may not be necessary	KEEP APART	Segregate from	Segregate from	KEEP APART	KEEP APART	Segregate from	ISOLATE	Separation may not be necessary
OXIDISING SUBSTANCES 5.1 Oxidising Substances 5.2 Organic peroxides	CLASS 5		Segregate from	Separation may not be necessary	Separation may not be necessary	Segregate from	Segregate from	Segregate from	KEEP APART	Segregate from	KEEP APART	KEEP APART
			ISOLATE	Segregate from	Segregate from	ISOLATE	Segregate from	ISOLATE	Segregate from	Segregate from	KEEP APART	KEEP APART
TOXIC SUBSTANCES	CLASS 6		KEEP APART	Separation may not be necessary	Separation may not be necessary	KEEP APART	KEEP APART	KEEP APART	Separation may not be necessary	KEEP APART	KEEP APART	Separation may not be necessary
CORROSIVE SUBSTANCES	CLASS 8		KEEP APART	KEEP APART	KEEP APART	KEEP APART	Separation may not be necessary	KEEP APART	Separation may not be necessary	KEEP APART	KEEP APART	Separation may not be necessary

Key to table in appendix 1

Separation may not be necessary	Separation may not be necessary, but suppliers should be consulted about requirements for individual substances. In particular, it should be noted that some types of chemicals within the same class, particularly Class 8 corrosives may react violently, generate a lot of heat if mixed or evolve toxic fumes.
KEEP APART	Separate packages by at least 3 metres or one gangway width, whichever is the greater distance, in the storeroom or storage area outdoors. Materials in Non-combustible packaging which are not dangerous substances and which present a low fire hazard may be stored in the separation area. This standard of separation should be regarded as a minimum between substances known to react together readily, if that reaction would increase the danger of an escalating incident.
Segregate from	These combinations should not be kept in the same building compartment or outdoor storage compound. Compartment walls should be imperforate, of at least 30 minutes fire resistance and sufficiently durable to withstand normal wear and tear. Brick or concrete construction is recommended. An alternative is to provide separate outdoor storage compounds with an adequate space between them.
ISOLATE	This is used for organic peroxides, for which dedicated buildings are recommended. Alternatively, some peroxides may be stored outside in fire resisting secure cabinets. In either case, adequate separation from other buildings and boundaries is required.
Segregate from or KEEP APART	* The lower standard refers to the outside storage of gas cylinders. Where non-liquefied flammable gases are concerned the 3 metres separation distance may be reduced to 1 metre. ³¹

Where a particular material has the properties of more than one class, the classification giving the more onerous segregation requirements should be used.