

Classes (ADR)

Class 1	Explosive substances and articles
Class 2	Gases
Class 3	Flammable liquids
Class 4.1	Flammable solids, self-reactive substances and solid desensitised explosives
Class 4.2	Substances liable to spontaneous combustions
Class 4.3	Substances which, in contact with water, emit flammable gases
Class 5.1	Oxidising substances
Class 5.2	Organic Peroxides
Class 6.1	Toxic substances
Class 6.2	Infectious substances
Class 7	Radioactive material
Class 8	Corrosive substances
Class 9	Miscellaneous dangerous substances and articles

Compatibility

Under ADR, most classes can load together in the same transport unit. The theory behind this is that if the supplier has packed the goods in UN approved packaging and has conformed to ADR, then there is no risk for cross contamination and reaction.

By IMDG, this is different, and there are much more strict rules concerning the classes which can load together in a transport unit.

Eurotunnel has its own set of rules which are available on request from Eurotunnel. In general they comply with RID (which is 99% equivocal to ADR), but they do have other restrictions which should be considered, and therefore I would recommend that the handbook is obtained should you intend to utilise this route.

The tables which follow should be used as a guideline only, so use this as a general rule of thumb only.

ADR

I N F O R M A T I O N

Labels Nos.	1	1.4	1.5	1.6	2.1, 2.2, 2.3	3	4.1	4.1 +1	4.2	4.3	5.1	5.2	5.2 +1	6.1	6.2	7 A, B, C	8	9				
1	See 7.5.2.2										d								b			
1.4					a	a	a		a	a	a	a		a	a	a	a	a	a	a	a	a
1.5																						b
1.6																						b
2.1, 2.2, 2.3		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
3		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
4.1		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
4.1 + 1								X														
4.2		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
4.3		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
5.1	d	a			X	X	X		X	X	X	X		X	X	X	X	X	X			
5.2		a			X	X	X		X	X	X	X	X	X	X	X	X	X	X			
5.2 + 1												X	X									
6.1		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
6.2		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
7A, B, C		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
8		a			X	X	X		X	X	X	X		X	X	X	X	X	X			
9	b	a b c	b	b	X	X	X		X	X	X	X		X	X	X	X	X	X			

X Mixed loading permitted.

a Mixed loading permitted with 1.4S substances and articles.

b Mixed loading permitted between goods of Class 1 and life-saving appliances of Class 9 (UN Nos. 2990, 3072 and 3268).

c Mixed loading permitted between safety devices, pyrotechnic of Division 1.4, compatibility group G, (UN No. 0503) and safety devices, electrically initiated of Class 9 (UN No. 3268).

d Mixed loading permitted between blasting explosives (except UN No. 0083 explosive, blasting, type C) and ammonium nitrate (UN Nos. 1942 and 2067) and alkali metal nitrates and alkaline earth metal nitrates provided the aggregate is treated as blasting explosives under Class 1 for the purposes of placarding, segregation, stowage and maximum permissible load. Alkali metal nitrates include caesium nitrate (UN 1451), lithium nitrate (UN 2722), potassium nitrate (UN 1486), rubidium nitrate (UN 1477) and sodium nitrate (UN 1498). Alkaline earth metal nitrates include barium nitrate (UN 1446), beryllium nitrate (UN 2464), calcium nitrate (UN 1454), magnesium nitrate (UN 1474) and strontium nitrate (UN 1507).

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Classes (IMDG)

Class 1:	Explosives
	1.1: substances and articles which have a mass explosion hazard
	1.2: substances and articles which have a projection hazard not a mass explosion hazard
	1.3: substances and articles which have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard
	1.4: substance and articles which present no significant hazard
	1.5: very insensitive substances which have a mass explosion hazard
	1.6: extremely insensitive articles which do not have a mass explosion hazard
Class 2:	Gases
	2.1: flammable gases
	2.2: non-flammable, non-toxic gases
	2.3: toxic gases
Class 3:	Flammable liquids
Class 4:	Flammable solids; substances liable to spontaneous combustion; substances which, in contact with water, emit flammable gases
	4.1: flammable solids, self-reactive substances and desensitized explosives
	4.2: substances liable to spontaneous combustion
	4.3: substances which, in contact with water, emit flammable gases
Class 5:	Oxidizing substances and organic peroxides
	5.1: oxidizing substances
	5.2: organic peroxides
Class 6:	Toxic and infectious substances
	6.1: toxic substances
	6.2: infectious substances
Class 7:	Radioactive material
Class 8:	Corrosive substances
Class 9:	Miscellaneous dangerous substances and articles

One important note! Not all class 8 can load with 8 as Acids and Alkalis cannot be loaded on the same unit for IMDG. In fact, you should be aware of Acids in general. Also, be aware of foodstuffs and the compatibility with chemicals – for example you would think very hard before you loaded a toxic chemical with some food ingredients! And additionally, oxidisers do have some additional segregation criteria so it is best to always verify with the intended shipping line.

IMDG

CLASS	1.1 1.2 1.5	1.3 1.6	1.4	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7	8	9
1.1, 1.2, 1.5	* see 7.2.7.1 for segregation			4	2	2	4	4	4	4	4	4	2	4	2	4	X
1.3, 1.6	between class 1			4	2	2	4	3	3	4	4	4	2	4	2	2	X
1.4				2	1	1	2	2	2	2	2	2	X	4	2	2	X
2.1	4	4	2	X	X	X	2	1	2	X	2	2	X	4	2	1	X
2.2	2	2	1	X	X	X	1	X	1	X	X	1	X	2	1	X	X
2.3	2	2	1	X	X	X	2	X	2	X	X	2	X	2	1	X	X
3	4	4	2	2	1	2	X	X	2	1	2	2	X	3	2	X	X
4.1	4	3	2	1	X	X	X	X	1	X	1	2	X	3	2	1	X
4.2	4	3	2	2	1	2	2	1	X	1	2	2	1	3	2	1	X
4.3	4	4	2	X	X	X	1	X	1	X	2	2	X	2	2	1	X
5.1	4	4	2	2	X	X	2	1	2	2	X	2	1	3	1	2	X
5.2	4	4	2	2	1	2	2	2	2	2	2	X	1	3	2	2	X
6.1	2	2	X	X	X	X	X	X	1	X	1	1	X	1	X	X	X
6.2	4	4	4	4	2	2	3	3	3	2	3	3	1	X	3	3	X
7	2	2	2	2	1	1	2	2	2	2	1	2	X	3	X	2	X
8	4	2	2	1	X	X	X	1	1	1	2	2	X	3	2	X	X
9	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

1 Away from

2 Separated from

3 Separated by a complete compartment or hold from

4 Separated longitudinally by an intervening complete compartment or hold from

X The segregation, if any, is shown in the Dangerous Goods List.

Note that in 99.9% of cases segregation numbers 2, 3 & 4 mean on separate trailers, and usually number 1 for road transport where curtain sided vehicles are used is considered as separate trailer loading. Only in containers would 'away from' mean 3 metres apart but possibly within the same unit.

See IMDG Supplement on stowage and segregation for more concise instructions or verify with the shipping line.

ADDITIONALLY, please note that for Limited quantities you DO NOT need to consider segregation.

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