

## Classes (ADR)

- Class 1 Explosive substances and articles
- Class 2 Gases
- Class 3 Flammable liquids
- Class 4.1 Flammable solids, self-reactive substances & 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 stricter 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	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 b c
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			
3		a			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			
4.1 + 1								X													
4.2		a			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			
5.1	d	a			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			
5.2 + 1												X	X								
6.1		a			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			
7A, B, C		a			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			
9	b	a b c	b	b	X	X	X		X	X	X	X		X	X	X	X	X			



## I N F O R M A T I O N

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- 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 air bag inflators, or air bag modules, or seat-belt pre-tensioners of Division 1.4, compatibility group G, (UN No. 0503) and air bag inflators or air bag modules or seat-belt pre-tensioners 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
  - Division 1.1: substances and articles which have a mass explosion hazard
  - Division 1.2: substances and articles which have a projection hazard but do not have a mass explosion hazard
  - Division 1.3: substances and articles which have a fire hazard, and either a minor blast hazard, or a minor projection hazard, but not a mass explosion hazard
  - Division 1.4: substances and articles which present no significant hazard
  - Division 1.5: very insensitive substances which have a mass explosion hazard
  - Division 1.6: extremely insensitive articles which do not have a mass explosion hazard
- Class 2            Gases
  - Class 2.1: flammable gases
  - Class 2.2: non-flammable, non-toxic gases
  - Class 2.3: toxic gases
- Class 3            Flammable liquids
- Class 4.1          Flammable solids, self-reactive substances & solid desensitized explosives
- Class 4.2          Substances liable to spontaneous combustion
- 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

One important note! Not all class 8 can load with 8 as Acids and Alkalis cannot be loaded on the same unit for IMDG.

Also note that for curtain sided trailer movements there is no 'separated from' or away from' – they can either load in the same trailer, or they can't. Goods packaged in 'Limited Quantities' do not count when considering segregation.

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IMDG	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 7.2.7.2 of IMDG			4	2	2	4	4	4	4	4	4	2	4	2	4	X
1.3, 1.6				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. But LOOK OUT – Not all class 8's can load with each other!

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.