## **APPENDIX 2.15.1**

# Storage Compatibility of Dangerous Goods in Laboratories and Chemical Stores

### Storage Compatibility of Dangerous Goods in laboratories and Chemical Stores

A common practice is to store all chemical materials alphabetically. However, in order to prevent unwanted reactions from occurring in a storage area, chemicals should be stored in compatible groups.

The following tables give possible combinations of dangerous goods classes which may be stored together. Note that class 1 may not be stored with anything else. Sometimes further advice can be obtained from the MSDS or the supplier.

For operations at the Department of Chemistry, UOW, no dangerous goods may be stored together that have a classification of LoriR.

Reference: Appendix G, Australian/New Zealand Standard AB/NZS 3833 The Storage and Handling of Mixed Classes of Dangerous Goods in Packages and Infermediate Bulk Containers.

Class	2	3	4.1	4.2	4.3	5.1	6.1	8
2	С	ı	1	R	- 1	R	С	С
3	I	С	1	R	- 1	R	С	- 1
4.1	1	1	С	R	R	R	С	- 1
4.2	R	R	R	С	R	R	I	R
4.3			R	R	С	R	С	R
5.1	R	R	R	R	R	R†	R	R
6.1	С	С	С	1	С	R	С	R
8	С			R	R	R	R	c1

#### Key:

C = are likely to be compatible with each other

I = are likely to be incompatible with each other

R = are likely to react dangerously with each other

† All dangerous goods of this Class may be regarded as reacting dangerously with other dangerous goods of the same class but with different UN Numbers.

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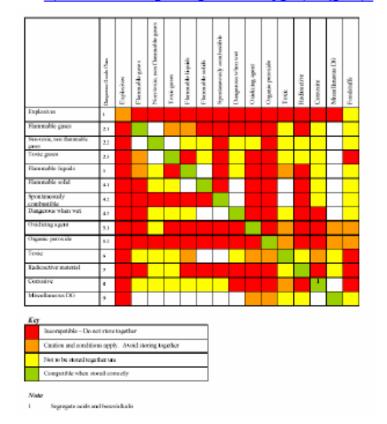
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This table details some sub-classes within the nine dangerous goods classes.

Reference http://lnfo.anu.edu.au/hr/OH8/\_Procedure\_Attachments/Storage\_Compatibility\_Table.pdf



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‡ Liquids may be regarded as incompatible with other liquids or solids of the same class but with different UN Numbers.

The table below indicates more specific chemicals may be safely stored together. Within a group, chemicals may be stored alphabetically.

Chemical Group	Reactivity	Do Not Store With
	Group#	Group #
INORGANIC ACIDS	1	2-8,10,11,12,13,15-18,20,21
ORGANIC ACIDS	2	1,3,4,7,13,15-18
CAUSTICS	3	1,2,6-8,12-17,19,21
AMINES AND ALKANOLAMINES	4	1,2,5,7,8,12-17,21
HALOGENATED COMPOUNDS	5	1,3,4,11,13,16
ALCOHOLS, GLYCOLS, GLYCOL Ethers	6	1,7,13,15,19,21
ALDEHYDES	7	1-4,6,8,14-16,18,19,21
KETONES	8	1,3,4,7,18,19
PETROLEUM OILS, SATURATED HYDROCARBONS	9	19
AROMATIC HYDROCARBONS	10	1,19
OLEFINS	11	1,5,19
ESTERS	12	1,3,4,18,19
MONOMERS, POLYMERIZABLE Esters	13	1-6,14,15,18,19,20,21
PHENOLS	14	3,4,7,13,15,18,19
ALKYLENE OXIDES	15	1-4,6,7,13,14,16-18,21
CYANOHYDRINS	16	1-5,7,15,18,21
NITRILES	17	1-4,15,21
AMMONIA .	18	1,2,7,8,12-16,19,21
HALOGENS	19	3,6-14,18,20
ETHERS	20	1,13,19
ACID ANHYDRIDES	21	1,3,4,6,7,13,15-18