

## Compatibility Chart for Hazardous Substance Storage

The table below provides guidance on the Storage of Hazardous material. It lists the most common hazardous materials and indicates which are compatible and can be stored safely in the same cabinet or store room and which are either not permitted or permitted with restrictions.

Classification	SC	1	2a	2b	3a	3b	4.1a	4.1b	4.2	4.3	5.1a	5.1b	5.1c	5.2	6.1a	6.1b	6.2	7	8a	8b	10	11	12	13
Explosive substances	1	(+)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Compressed, liquified and gases stored under pressure	2a	-	(+)	(+)	-	-	-	-	-	-	-	-	(+)	-	-	-	-	(+)	(+)	+	-	(+)	+	+
Compressed gas packs	2b	-	(+)	+	(+)	(+)	-	-	-	-	-	-	(+)	-	(+)	(+)	-	(+)	(+)	(+)	(+)	(+)	(+)	(+)
Flammable liquids (R 10, R11, R 12)	3a	-	-	(+)	+	+	-	-	-	-	-	(+)	-	-	+	-	-	(+)	(+)	(+)	+	(+)	+	+
Flammable liquids	3b	-	-	(+)	+	+	(+)	(+)	-	(+)	-	(+)	-	(+)	+	+	-	(+)	+	+	+	+	+	+
Flammable solid substances	4.1a	-	-	-	-	(+)	(+)	(+)	-	-	-	-	-	(+)	-	-	-	-	(+)	(+)	(+)	(+)	(+)	(+)
Flammable solid substances	4.1b	-	-	-	-	(+)	(+)	+	(+)	(+)	-	(+)	-	(+)	(+)	-	-	(+)	+	+	+	+	+	+
Self-igniting substances (R 17)	4.2	-	-	-	-	-	-	(+)	+	(+)	-	-	-	-	-	-	-	(+)	(+)	(+)	(+)	(+)	+	+
Substances, which form flammable gases when they come into contact with water (R 15)	4.3	-	-	-	-	(+)	-	(+)	(+)	+	-	-	-	-	-	-	-	(+)	(+)	(+)	(+)	(+)	(+)	+
Substances with a flammable effect (TRGS 515 Gr. 1)	5.1a	-	-	-	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-
Substances with a flammable effect (TRGS 515 Gr. 2 + 3)	5.1b	-	-	-	(+)	(+)	-	(+)	-	-	+	+	(+)	-	(+)	(+)	-	(+)	(+)	+	(+)	(+)	+	+
Substances with a flammable effect (TRGS 511)	5.1c	-	(+)	(+)	-	-	-	-	-	-	-	(+)	(+)	-	-	-	-	(+)	(+)	(+)	(+)	(+)	(+)	(+)
Organic peroxide	5.2	-	-	-	-	(+)	(+)	(+)	-	-	-	-	-	(+)	-	-	-	-	-	-	(+)	(+)	(+)	(+)
Flammable toxic substances	6.1a	-	-	(+)	+	+	-	(+)	-	-	-	(+)	-	-	+	+	-	(+)	+	+	+	(+)	+	+
Non-flammable toxic substances	6.1b	-	-	(+)	-	(+)	-	-	-	-	-	(+)	-	-	+	+	-	(+)	+	+	+	(+)	+	+
Infectious substances	6.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-
Radioactive substances	7	-	(+)	(+)	(+)	(+)	-	(+)	(+)	(+)	-	(+)	(+)	-	(+)	(+)	-	+	(+)	(+)	(+)	(+)	(+)	(+)
Flammable corrosive substances	8a	-	(+)	(+)	(+)	+	(+)	+	(+)	(+)	-	(+)	(+)	-	+	+	-	(+)	+	+	+	+	+	+
Non-flammable corrosive substances	8b	-	+	(+)	(+)	+	(+)	+	(+)	(+)	-	+	(+)	-	+	+	-	(+)	+	+	+	+	+	+
Flammable liquids (not incl. in 3a and 3b)	10	-	-	(+)	+	+	(+)	+	(+)	(+)	-	(+)	(+)	(+)	+	+	-	(+)	+	+	+	+	+	+
Flammable solid substances	11	-	(+)	(+)	(+)	+	(+)	+	(+)	(+)	-	(+)	(+)	(+)	(+)	(+)	-	(+)	+	+	+	+	+	+
Non-flammable liquids	12	-	+	(+)	+	+	(+)	+	+	(+)	-	+	(+)	(+)	+	+	-	(+)	+	+	+	+	+	+
Non-flammable solid substances	13	-	+	(+)	+	+	(+)	+	+	+	-	+	(+)	(+)	+	+	-	(+)	+	+	+	+	+	+

**+ permitted – not permitted (+) permitted with restrictions**

\*Note the information given above is correct to the best of our knowledge for the substances listed. If in doubt you should consult a qualified safety professional.

To whom it may concern,

The British Health & Safety Executive has published a website supplement concerning the internal storage of flammable liquids.

Please have a look at:

<http://www.hse.gov.uk/fireandexplosion/storageflammliquids.htm>

The key facts are:

1. No more than 50 litres of highly flammable liquids (the HSE define highly flammable as meaning the maximum ambient temperature the air might reach – nominally 32°C) in any one room using a cabinet built according to BS 476. Even then there must be no air gaps. So several single skinned manufactures may have to at the very least change design and add intumescent tape
2. If a user wishes to store more than 50 litres he must firstly conduct a robust (strict) risk assessment.
3. The above risk assessment contains 2 new points. Firstly the fire performance of the cabinet will be taken into account. This includes insulation properties and clearly EN 14470-1 cabinets have no equal. Secondly the arrangements for doors closing in the event of a fire will be taken into account. This means the FM cabinets, with mechanical door closing (the version sold in the UK) will have to add a self-closing mechanism whereby the insulation properties are far inferior to EN 14470-1 cabinets.
4. The HSE apply the above guidance to workrooms, process areas and similar as well as laboratories.

If you need any additional information please do not hesitate to contact us.

Best regards,