

The question of which hazardous substances can be stored together in a storeroom or part of a storeroom is very important for the arrangement of the hazardous substances storage facility. It is determined by numerous regulations, laws and technical rules.

The Association of the German Chemical Industry (Verband der Chemischen Industrie – VCI) has developed a concept for solving this problem that allows planning to be carried out with sufficient accuracy.

The basis of this concept is the assignment of the affected substances into so-called storage classes (LGK) derived from the DIN safety data sheets.

By using the simplified matrix given below the admissibility of storing two substances together can be determined rapidly and unambiguously.

**Substance storage according to the VCI Concept**

STORAGE CLASS (LGK)		STORAGE CLASS (LGK)																							
		1	2 A	2 B	3 A	3 B	4.1 A	4.1 B	4.2	4.3	5.1 A	5.1 B	5.1 C	5.2	6.1 A	6.1 B	6.2	7	8 A	8 B	10	11	12	13	
Explosive materials	1																								
Compressed liquefied or pressure-dissolved gases	2 A																								
Pressurized gas packages	2 B																								
Flammable liquid materials	3 A																								
Flammable liquids	3 B																								
Flammable solid materials	4.1 A																								
	4.1 B																								
Spontaneously combustible mat.	4.2																								
Materials that form flammable gases on contact with water	4.3																								
Oxidising agents	5.1 A																								
	5.1 B																								
	5.1 C																								
Organic peroxides	5.2																								
Flammable toxic materials	6.1 A																								
Non-flammable toxic materials	6.1 B																								
Infectious materials	6.2																								
Radioactive materials	7																								
Flammable corrosive materials	8 A																								
Non-flammable corrosive mat.	8 B																								
Flammable liquids (if not LGK 3 A or 3 B)	10																								
Flammable solids	11																								
Non-flammable liquids	12																								
Non-flammable solids	13																								

■ not permitted     
 ■ permitted     
 ■ permitted with restrictions

Collection through systems

Shelving systems for hazardous substances

Safety cabinets

Open-air storage systems / projects

Fire protection container systems

Gas cylinder storage systems

Safety containers, handling systems, ...