

General joint storage of hazardous materials

Basic principles:

- The protective measures for the storage of hazardous materials must be adapted to suit the hazardous material.
- Materials which can interact with each other in a dangerous way may not be stored together.
- Knowledge and recognition of hazardous materials is a prerequisite for the safe storage of materials. The hazard symbols (transport classification, hazardous material classification) and the hazard notices (H-statements) serve this purpose.
- If the symbols and warning notices on the **packaging** or the **safety data sheet** are unclear or give no clear indication of the hazards presented by this material, consult an expert or the official technical body responsible.

Material properties	ADR/SDR transport labelling	GHS/CLP labelling	Storage class	1	2	3	4.1	4.2	4.3	5	6.1	6.2	7	8	10/12	11/13	NH
Explosive materials			1	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Liquefied gases and gases under pressure			2	Red	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Yellow
Flammable liquids			3	Red	Red	Green	Red	Red	Red	* * *	* *	Red	Red	* *	* *	Red	Red
Flammable solids			4.1	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Red
Spontaneously combustible materials			4.2	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red
Materials that release flammable gases in contact with water			4.3	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red	Red	Red	Red	Red
Oxidizing materials, organic peroxides			5	Red	Red	* *	Red	Red	Red	* *	* *	Red	Red	* *	* *	Red	Red
Toxic materials			6.1	Red	Red	* *	Red	Red	Red	* *	Green	Red	Red	* *	* *	Yellow	Red
Potentially infectious materials			6.2	Red	Red	Red	Red	Red	Red	Red	Red	Green	Red	Red	Red	Red	Red
Radioactive materials			7	Red	Red	Red	Red	Red	Red	Red	Red	Red	Green	Red	Red	Red	Red
Caustic and corrosive materials			8	Red	Red	* *	Red	Red	Red	* *	* *	Red	Red	* *	* *	Yellow	Red
Other liquids			10/12	Red	Yellow	* *	Yellow	Red	Red	* *	* *	Red	Red	* *	Green	Red	Red
Other solids			11/13	Red	Yellow	Red	Yellow	Red	Red	Red	Yellow	Red	Red	Red	Yellow	Green	Red
Non-hazardous materials (NH) (e.g. textiles, packaging materials)			NH	Red	Yellow	Red	Red	Red	Red	Red	Red	Red	Red	Red	Yellow	Yellow	Green

Legend:

	Joint storage generally allowed.
	Joint storage only allowed under certain conditions. Please consult the appropriate safety data sheets or consult an expert for advice.
	Separate storage or at least separate storage in the same fire section necessary! See also section 7 of the guideline.
	Frequently used materials of storage classes 3, 5, 6.1, 8 and 10/12 are listed in the table «Joint storage of frequently used basic chemicals» opposite.

Joint storage of frequently used basic chemicals (SC 3, 5, 6.1, 8, 10/12)

		Formic acid	Ammonia solution	Iron (III) chloride solution	Iron (III) chloride-sulphate solution	Acetic acid	Fluoric acid	Potassium hydroxide solution (potash lye)	Sodium hydroxide solution (soda lye)	Sodium hydrogen sulphite	Sodium hypochlorite (Javelle water)	Peracetic acid	Phosphoric acid	Nitric acid	Hydrochloric acid	Sulphuric acid	Hydrogen peroxide
	Storage class	8	8	8	8	3	6.1	8	8	10/12	5	5	8	5	8	8	5
Formic acid	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Ammonia solution	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Iron (III) chloride solution	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Iron (III) chloride-sulphate solution	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Acetic acid	3	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Fluoric acid	6.1	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Potassium hydroxide solution (potash lye)	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Sodium hydroxide solution (soda lye)	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Sodium hydrogen sulphite	10/12	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Sodium hypochlorite (Javelle water)	5	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Peracetic acid	5	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Phosphoric acid	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Nitric acid	5	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Hydrochloric acid	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Sulphuric acid	8	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Hydrogen peroxide	5	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

Chemicals within the same storage class can sometimes react dangerously with each other.

Therefore, please observe the hazard notices (H-statements) as well as additional information about any chemical incompatibilities in the respective safety data sheets!