PRACTICAL INFORMATION 8

The storage of flammable liquids is regulated in the GefStoffV and BetrSichV. Regarding the storage of hazardous substances in mobile container the requirements have been included in the TRGS 510. The TRGS 510 reflects requirements in the numbers 4,5,6 and 12 as well as the annex 1 which comply with the state of the art in respect of compliance with an implementation of these requirements.

The TRGS 509 deals with the storage of flammable liquids in stationary containers and in particular with mobile container filling and emptying points. The requirements of this guideline are to be considered, if in a warehouse containers are opened for withdrawal and filling. Here then takes place an "active storage", in contrast to a "passive storage" in which the containers are not opened. In practice, this has a considerable influence on the measures to be taken for explosion protection and zoning.

According to CLP, the inflammatory fluids are classified in

Designation	Category	Symbol	Signal word	H-phrase	Criteria
extremely flammable	Cat. 1	\wedge	Danger	H224	FP < 23 °C SB ≤ 35 °C
easy flammable	Cat. 2	<u> </u>	Danger	H225	FP < 23 °C SB ≥ 35 °C
flammable	Cat. 3		Attention	H226	FP ≥ 23 °C up to ≤ 60 °C

FP = Flash point

SB = Boiling point

In addition to the TRGS 510, the GefStoffV § 11 and Annex 1 No. 1, in particular, stipulates special regulations for fire and explosion hazards which must be observed.

Quantity limits:

vo	What	Quantity limit	Related		
BetrSichV	Permission § 18	10.000 l	extremely flammable easy flammable		
BlmSchG i.V.m. 4. BlmSchV	§ 19 Authorization	≥ 5.000 t up to <10.000 t	FP < 21 °C SB > 20 °C		
	§ 10 Authorization	≥ 10.000 t	FP ≤ 100 °C		
BlmSchG i.V.m. 12. BlmSchV		≥ 10.000 kg	extremely flammable		
	§ 23a also display possible § 23b Authorization	≥ 5.000.000 kg	easy flammable flammable		
		≥ 50.000 kg	extremely flammable		
		≥ 50.000.000 kg	easy flammable flammable		

FP = Flash point

SB = Boiling point

Temporal change in the classification of flammable liquids

VbF 31.12.2002		BetrSichV and GefStoffV from 01.01.2003				GHS from 20.01.2009 with periods of transition			
Designation	Criteria	Designation	Hazard symbol	R-phrase	Criteria	Designation	Hazard symbol	H-phrase	Criteria
AI FP	FP < 21 °C	highly flammable	F+	R12	FP < 0 °C SB ≤ 35 °C	extremely flammable	Cat. 1, Flame Danger	H224	FP < 23 °C SB ≤ 35 °C
	FP < 21 °C	easy flammable	F	R11	FP < 21 °C	easy flammable	Cat. 2, Flame Danger	H225	FP < 23°C SB > 35°C
All	FP ≥ 21 °C up to ≤ 55 °C	flammable	without	R10	FP ≥ 21°C up to ≤ 55 °C	flammable	Cat. 3, Flame Attention	H226	FP ≥ 23 °C up to ≤ 60 °C
AIII	FP ≥ 55 °C up to ≤ 100 °C	-	-	-	-	-	-	-	-
B at	FP < 21 °C, at 15 °C in	highly flammable	F+	R12	FP < 0 °C SB ≤ 35 °C	extremely flammable	Cat. 1, Flame Danger	H224	FP < 23 °C SB ≤ 35 °C
	Water soluble	easy flammable	F	R11	FP < 21 °C	easy flammable	Cat. 2, Flame Danger	H225	FP < 23°C SB > 35°C
-	-	flammable	without	R10	FP ≥ 21 °C up to ≤ 55 °C	flammable	Cat. 3, Flame Attention	H226	FP ≥ 23 °C up to ≤ 60 °C

The list is purely informative and gives a simplified overview without claiming to be complete. It is not intended to classify substances or mixtures. This must be done according to the valid regulations exclusively.

FP = Flash point

SB = Boiling point