

DIN EN 71-4:2025-06 (E)

Safety of toys - Part 4: Experimental sets for chemistry and related activities (includes Amendment A1:2025)

Contents		Page
European foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	8
4	Chemical substances in experimental sets	9
4.1	Chemistry sets	9
4.1.1	Inclusion in the chemistry set	9
4.1.2	Inclusion for experiments (as mentioned in the instructions but not supplied in the chemistry set)	10
4.1.3	Requirements for packaging in containers	10
4.2	Crystal growing sets	15
4.3	Carbon dioxide generating experimental sets	17
5	Equipment	19
5.1	General requirements	19
5.2	Containers and glassware	19
5.2.1	Test tubes	19
5.2.2	Other glassware	19
5.2.3	Containers for reagents, substances and mixtures	20
5.2.4	Packaging and closures	20
5.2.5	Empty containers	21
5.2.6	Test method for borosilicate glass	22
5.3	Equipment for the transfer of liquid	23
5.4	Test tube stand and test tube holder	23
5.5	Eye protection	23
6	Marking	23
6.1	General requirements	23
6.2	Marking of individual containers, packaging and glassware	23
6.3	Marking of the primary packaging	24
6.3.1	The primary packaging shall bear the following warnings:	24
6.3.2	Supplementary sets shall additionally be marked with the following warning on the primary packaging	24
7	list with warnings and first aid information	25
8	Instructions for use	25
8.1	General instructions	25
8.2	Advice for supervising adults	26
8.3	Safety rules	27
8.3.1	Chemistry sets	27
8.3.2	Crystal growing sets	27
8.3.3	Carbon dioxide generating experimental sets	28
Annex A (informative)	Rationale	29

Annex B (informative) Environmental considerations	31
Annex C (informative) Significant technical changes between this document and the previous version	32
Annex D (normative) Test methods for closures of containers	33
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2009/48/EC aimed to be covered	34
Bibliography	35