

DIN EN 71-5:2026-02 (E)

Safety of toys - Part 5: Chemical toys (sets) other than experimental sets

Contents		Page
European foreword		4
Introduction		7
1	Scope	8
2	Normative references	8
3	Terms and definitions	9
4	Plaster of Paris (gypsum) moulding sets	11
4.1	Marking	11
4.2	First aid information	11
4.3	Safety rules	11
5	Oven-hardening plasticised PVC modelling clay sets	11
5.1	Chemical substances	11
5.2	Marking	12
5.3	First aid information	12
5.4	Safety rules	12
6	Moulding sets	13
6.1	Polystyrene granules sets	13
6.2	Embedding sets	14
7	Adhesives, paints, lacquers, varnishes, thinners and cleaning agents (solvents) supplied or recommended in model sets	14
7.1	General	14
7.2	Adhesives	14
7.3	Water-based paints or lacquers	21
7.4	Solvent-based paints, lacquers, thinners and cleaning agents (solvents)	22
8	Slime kits	24
8.1	Chemical substances	24
8.2	Marking	25
8.3	First aid information	25
8.4	Safety rules	26
9	Marking	26
9.1	General	26
9.2	Marking of the primary packaging	26
9.3	Marking of individual containers and any packagings	26
10	Instructions for use	27
10.1	General	27
10.2	list	27
10.3	Advice for adult supervision	27
10.4	Safety rules	29
10.5	Instructions for carrying out the activities	29
10.6	Spills and disposal of chemicals	29
11	Test methods	29

11.1	General	29
11.2	Determination of plasticisers in oven-hardening polyvinyl chloride (PVC) modelling clay sets	30
11.3	Determination of benzene, toluene and xylenes in oven-hardening plasticised PVC modelling clay and polystyrene granules	37
11.4	Determination of styrene content in polystyrene granules	41
11.5	Determination of organic solvents	43
11.6	Combined approach for the determination of plasticisers in solvent-based adhesives and in solvent-based paints or lacquers, film-forming agents in paints and lacquers and modifiers in solvent-based paints or lacquers	64
Annex A (informative) Environmental, health and safety precautions for using the methods of analysis		75
Annex B (informative) Organic solvents		76
Annex C (informative) Validation of test methods		78
Annex D (informative) Background and rationale for this European Standard		79
D.1	General remark	79
D.2	Primary packaging (4.1; 5.2; 6.1.2; 7.2.1.2.2; 7.2.2.6; 7.3.2; 7.4.3; 8.2, 9.2)	79
D.3	Minimum age (4.1; 5.2; 6.1.2; 6.2.2; 7.2.1.2.3; 7.2.1.3.3; 7.2.2.6; 7.3.3; 7.4.3, 8.2)	80
D.4	Benzene (5.1, Table 2; 7.2.2.4, Table 11; 7.4.1, Table 15)	80
D.5	Preservatives (6.2.1; 7.2.1.1; 7.3.1, 8.1)	80
D.6	Guidance on giving adequate advice for adult supervision (10.3)	80
Annex E (normative) Non-exhaustive list of colourants which need to be in compliance with both the general and specific purity requirements		81
Annex F (normative) Booster substances		87
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2009/48/EC aimed to be covered		88
Bibliography		89