DIN EN 71-7:2025-12 (E)

Safety of toys - Part 7: Finger paints - Requirements and test methods

Contents

Page

European foreword 4

Introduction 7

1 Scope 8

2 Normative references 8

3 Terms and definitions 8

4 Requirements 9
4.1 General 9
4.2 Colourants 10
4.3 Preservatives 10
4.4 Limits for impurities 10
4.4.1 Limits for primary aromatic amines 10
4.4.2 Limits for other impurities 12
4.5 Taste and smell 12
4.6 pH-value 13
4.7 Binding agents, extenders, humectants and surfactants 13
4.8 Containers 13
4.9 Booster substances (see Clause F.15) 13

5 Product information 13
5.1 General 13
5.2 Marking 13
5.2.1 Primary packaging 13
5.2.2 Container 14

Annex A (informative) Non-exhaustive list of colourants which are used in finger paints, and need to be in compliance with both the general and specific purity requirements 15

Annex B (normative) List of preservatives allowed for use in finger paints 21

Annex C (informative) Ingredients used in the manufacture of finger paints 26

Annex D (normative) Method for the detection of certain azo colourants and determination of free primary aromatic amines 28

D.1 General 28
D.2 Reagents 29
D.3 Apparatus 30
D.4 Instrumentation 30
D.5 Sampling procedure 30
D.6 Procedure 30
D.7 Calculation 39
D.8 Precision 40
D.9 Report 45
D.10 Additional information 45

Annex E (normative) Method for the determination of hexachlorobenzene, polychlorinated biphenyls and benzo[a]pyrene 46

E.1 Principle 46
E.2 Standards, reagents and solvents 46
E.3 Apparatus 48
E.4 Instrumentation 48
E.5 Sampling 49
E.6 Procedure 49
E.7 Calculation 54
E.8 Precision 56
E.9 Report 58
E.10 Additional information 59

Annex F (informative) Background and rationale for this European Standard 66

F.1 Finger paints (see 3.1) 66
F.2 Colourants (see 4.2) 66
F.3 Preservatives (see 4.3) 66
F.4 Migration of elements 67
F.5 Primary aromatic amines (see 4.4.1, Tables 1 and 2 and Annex D) 67
F.6 Limits for benzo[a]pyrene and further impurities (see 4.4.2) 67
F.7 Embittering agents (see 4.5) 68
F.8 pH value (see 4.6) 68
F.9 N-Nitrosamines 68
F.10 Container (see 4.8) 68
F.11 Labelling phrases (see 5.2.1.1) 68
F.12 List of polychlorinated biphenyl congeners (see Annex E) 69
F.13 Reference materials (see Annex D and E) 69
F.14 PCB analytical method (see E.6) 69
F.15 Booster substances (see 4.9) 69

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2009/48/EC aimed to be covered 71

Bibliography 72