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EN 71-3:2013+A3:2018

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

SAMBA TRAINER FOOTBALL GOAL COMPONENTS

CLIENT	Samba Sports
CLIENT ADDRESS	Walton Street Colne Lancashire BB8 0EN
CLIENT CONTACT	Jeff Tipler (Sales Manager)

REPORT NUMBER	LSUK.19-0159		
REVISION NUMBER & DATE	1.0 15/04/2019		
REPORTED BY	Def	David Rigby Laboratory Manager	
Approved by		Professor David James Managing Director	

SUMMARY OF REPORT / FINDINGS	In accordance with EN 71-3:2013+A3:2018, toxicology tests have been carried out on test specimen(s) of football goal components used in the sports and play sector. The test specimen(s) submitted met the requirements of EN 71-3:2013+A3:2018 when tested under laboratory conditions on the 25/03/2019.
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Report Number	LSUK.19-0159	Dago 1 of 0
Date	15/04/2019	Page 1 of 8
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info@labosport.co.uk



	Soluble elements were extracted from the test specimen(s) using conditions which simulate the material remaining in contact with gastric juices for a period of time after swallowing. The concentrations of the soluble elements were determined quantitatively by three different methods:
Scope of Testing / Drouget	 Method for determining general elements: Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin and Zinc; Method for determining Chromium (III) and Chromium (VI); Method for determining organic tin.
SCOPE OF TESTING / PROJECT	The Toy Safety Directive specifies maximum migration limits for three categories of materials. The limits for the migration of certain elements are expressed in milligram per kilogram of material. The purpose of the limits is to minimise exposure to certain potentially toxic elements. EN 71-3 contains requirements for the migration of certain elements from the following categories of materials:
	 Category I: Dry, brittle, powder like or pliable materials; Category II: Liquid or sticky materials; Category III: Scraped-off materials.

	EN 71-3:2013+A3:2018 – Safety of toys – Part 3: Migration of certain elements
	EN 71-1:2011 – Safety of toys – Part 1: Mechanical and physical properties
	EN ISO 3696 – Water for analytical laboratory use – Specification and test methods
TEST PROCEDURE / STANDARDS	EN ISO/IEC 17025 – General requirements for the competence of testing and calibration laboratories
	For dated references, only the edition cited applies. For undated references, the latest edition at the date of test of the referenced document (including any amendments) applies.

PRODUCT (DETAILS / DESCRIPTION)	Components used in the "Samba Trainer" football goal range consisting of "plastic goal frame", "plastic net clip", "goal net" and "metal ground peg".
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Report Number	LSUK.19-0159	Dage 2 of 0
Date	15/04/2019	Page 2 of 8
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TEST RESULTS MIGRATION OF CERTAIN ELEMENTS

Plastic Goal Frame

	Requirement			Category III	
Element	Category I	Category II	Category III	Measured result	Pass / Fail
Aluminium (Al)	≤ 5,625mg/kg	≤ 1,406mg/kg	≤ 70,000mg/kg	1.06mg/kg	Pass
Antimony (Sb)	≤ 45mg/kg	≤ 11.3mg/kg	≤ 560mg/kg	< 0.5mg/kg	Pass
Arsenic (As)	≤ 3.8mg/kg	≤ 0.9mg/kg	≤ 47mg/kg	< 0.5mg/kg	Pass
Barium (Ba)	≤ 1,500mg/kg	≤ 375mg/kg	≤ 18,750mg/kg	< 0.5mg/kg	Pass
Boron (B)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	< 0.5mg/kg	Pass
Cadmium (Cd)	≤ 1.3mg/kg	≤ 0.3mg/kg	≤ 17mg/kg	< 0.5mg/kg	Pass
Chromium III (Cr)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Chromium VI (Cr)	≤ 0.02mg/kg	≤ 0.005mg/kg	≤ 0.2mg/kg	< 0.2mg/kg	Pass
Cobalt (Co)	≤ 10.5mg/kg	≤ 2.6mg/kg	≤ 130mg/kg	< 0.5mg/kg	Pass
Copper (Cu)	≤ 622.5mg/kg	≤ 156mg/kg	≤ 7,700mg/kg	< 0.5mg/kg	Pass
Lead (Pb)	≤ 2.0mg/kg	≤ 0.5mg/kg	≤ 23mg/kg	<0.5mg/kg	Pass
Manganese (Mn)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	< 0.5mg/kg	Pass
Mercury (Hg)	≤ 7.5mg/kg	≤ 1.9mg/kg	≤ 94mg/kg	< 0.005mg/kg	Pass
Nickel (Ni)	≤ 75mg/kg	≤ 18.8mg/kg	≤ 930mg/kg	< 0.5mg/kg	Pass
Selenium (Se)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Strontium (Sr)	≤ 4,500mg/kg	≤ 1,125mg/kg	≤ 56,000mg/kg	< 0.5mg/kg	Pass
Tin (Sn)	≤ 15,000mg/kg	≤ 3,750mg/kg	≤ 180,000mg/kg	< 0.5mg/kg	Pass
Organic Tin (Sn)	≤ 0.9mg/kg	≤ 0.2mg/kg	≤ 12mg/kg	< 0.5mg/kg	Pass
Zinc (Zn)	≤ 3,750mg/kg	≤ 938mg/kg	≤ 46,000mg/kg	< 0.5mg/kg	Pass

Report Number	LSUK.19-0159	Page 3 of 8	
Date	15/04/2019	Page 3 of 8	
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TEST RESULTS MIGRATION OF CERTAIN ELEMENTS

Plastic Net Clip

-	Requirement			Category III	
Element	Category I	Category II	Category III	Measured result	Pass / Fail
Aluminium (Al)	≤ 5,625mg/kg	≤ 1,406mg/kg	≤ 70,000mg/kg	0.85mg/kg	Pass
Antimony (Sb)	≤ 45mg/kg	≤ 11.3mg/kg	≤ 560mg/kg	< 0.5mg/kg	Pass
Arsenic (As)	≤ 3.8mg/kg	≤ 0.9mg/kg	≤ 47mg/kg	< 0.5mg/kg	Pass
Barium (Ba)	≤ 1,500mg/kg	≤ 375mg/kg	≤ 18,750mg/kg	< 0.5mg/kg	Pass
Boron (B)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	< 0.5mg/kg	Pass
Cadmium (Cd)	≤ 1.3mg/kg	≤ 0.3mg/kg	≤ 17mg/kg	< 0.5mg/kg	Pass
Chromium III (Cr)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Chromium VI (Cr)	≤ 0.02mg/kg	≤ 0.005mg/kg	≤ 0.2mg/kg	< 0.2mg/kg	Pass
Cobalt (Co)	≤ 10.5mg/kg	≤ 2.6mg/kg	≤ 130mg/kg	< 0.5mg/kg	Pass
Copper (Cu)	≤ 622.5mg/kg	≤ 156mg/kg	≤ 7,700mg/kg	0.68mg/kg	Pass
Lead (Pb)	≤ 2.0mg/kg	≤ 0.5mg/kg	≤ 23mg/kg	< 0.5mg/kg	Pass
Manganese (Mn)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	< 0.5mg/kg	Pass
Mercury (Hg)	≤ 7.5mg/kg	≤ 1.9mg/kg	≤ 94mg/kg	< 0.005mg/kg	Pass
Nickel (Ni)	≤ 75mg/kg	≤ 18.8mg/kg	≤ 930mg/kg	0.79mg/kg	Pass
Selenium (Se)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Strontium (Sr)	≤ 4,500mg/kg	≤ 1,125mg/kg	≤ 56,000mg/kg	< 0.5mg/kg	Pass
Tin (Sn)	≤ 15,000mg/kg	≤ 3,750mg/kg	≤ 180,000mg/kg	< 0.5mg/kg	Pass
Organic Tin (Sn)	≤ 0.9mg/kg	≤ 0.2mg/kg	≤ 12mg/kg	< 0.5mg/kg	Pass
Zinc (Zn)	≤ 3,750mg/kg	≤ 938mg/kg	≤ 46,000mg/kg	< 0.5mg/kg	Pass

Report Number	LSUK.19-0159	Page 4 of 8
Date	15/04/2019	Page 4 01 8
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TEST RESULTS MIGRATION OF CERTAIN ELEMENTS

Goal Net

Florida	Requirement				Category III
Element	Category I	Category II	Category III	Measured result	Pass / Fail
Aluminium (Al)	≤ 5,625mg/kg	≤ 1,406mg/kg	≤ 70,000mg/kg	0.98mg/kg	Pass
Antimony (Sb)	≤ 45mg/kg	≤ 11.3mg/kg	≤ 560mg/kg	< 0.5mg/kg	Pass
Arsenic (As)	≤ 3.8mg/kg	≤ 0.9mg/kg	≤ 47mg/kg	< 0.5mg/kg	Pass
Barium (Ba)	≤ 1,500mg/kg	≤ 375mg/kg	≤ 18,750mg/kg	< 0.5mg/kg	Pass
Boron (B)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	< 0.5mg/kg	Pass
Cadmium (Cd)	≤ 1.3mg/kg	≤ 0.3mg/kg	≤ 17mg/kg	< 0.5mg/kg	Pass
Chromium III (Cr)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Chromium VI (Cr)	≤ 0.02mg/kg	≤ 0.005mg/kg	≤ 0.2mg/kg	< 0.2mg/kg	Pass
Cobalt (Co)	≤ 10.5mg/kg	≤ 2.6mg/kg	≤ 130mg/kg	< 0.5mg/kg	Pass
Copper (Cu)	≤ 622.5mg/kg	≤ 156mg/kg	≤ 7,700mg/kg	< 0.5mg/kg	Pass
Lead (Pb)	≤ 2.0mg/kg	≤ 0.5mg/kg	≤ 23mg/kg	< 0.5mg/kg	Pass
Manganese (Mn)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	< 0.5mg/kg	Pass
Mercury (Hg)	≤ 7.5mg/kg	≤ 1.9mg/kg	≤ 94mg/kg	< 0.005mg/kg	Pass
Nickel (Ni)	≤ 75mg/kg	≤ 18.8mg/kg	≤ 930mg/kg	< 0.5mg/kg	Pass
Selenium (Se)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Strontium (Sr)	≤ 4,500mg/kg	≤ 1,125mg/kg	≤ 56,000mg/kg	< 0.5mg/kg	Pass
Tin (Sn)	≤ 15,000mg/kg	≤ 3,750mg/kg	≤ 180,000mg/kg	< 0.5mg/kg	Pass
Organic Tin (Sn)	≤ 0.9mg/kg	≤ 0.2mg/kg	≤ 12mg/kg	<0 .5mg/kg	Pass
Zinc (Zn)	≤ 3,750mg/kg	≤ 938mg/kg	≤ 46,000mg/kg	< 0.5mg/kg	Pass

Report Number	LSUK.19-0159	Dago F	
Date	15/04/2019	Page 5 of 8	
This report contains 8 pages, it may not be used for commercial purposes unless it is reproduced in its entirety			



TEST RESULTS MIGRATION OF CERTAIN ELEMENTS

Metal Ground Peg

Clamant	Requirement				Category III
Element	Category I	Category II	Category III	Measured result	Pass / Fail
Aluminium (Al)	≤ 5,625mg/kg	≤ 1,406mg/kg	≤ 70,000mg/kg	< 0.5mg/kg	Pass
Antimony (Sb)	≤ 45mg/kg	≤ 11.3mg/kg	≤ 560mg/kg	< 0.5mg/kg	Pass
Arsenic (As)	≤ 3.8mg/kg	≤ 0.9mg/kg	≤ 47mg/kg	< 0.5mg/kg	Pass
Barium (Ba)	≤ 1,500mg/kg	≤ 375mg/kg	≤ 18,750mg/kg	< 0.5mg/kg	Pass
Boron (B)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	< 0.5mg/kg	Pass
Cadmium (Cd)	≤ 1.3mg/kg	≤ 0.3mg/kg	≤ 17mg/kg	< 0.5mg/kg	Pass
Chromium III (Cr)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Chromium VI (Cr)	≤ 0.02mg/kg	≤ 0.005mg/kg	≤ 0.2mg/kg	< 0.2mg/kg	Pass
Cobalt (Co)	≤ 10.5mg/kg	≤ 2.6mg/kg	≤ 130mg/kg	< 0.5mg/kg	Pass
Copper (Cu)	≤ 622.5mg/kg	≤ 156mg/kg	≤ 7,700mg/kg	2.71mg/kg	Pass
Lead (Pb)	≤ 2.0mg/kg	≤ 0.5mg/kg	≤ 23mg/kg	< 0.5mg/kg	Pass
Manganese (Mn)	≤ 1,200mg/kg	≤ 300mg/kg	≤ 15,000mg/kg	13.4mg/kg	Pass
Mercury (Hg)	≤ 7.5mg/kg	≤ 1.9mg/kg	≤ 94mg/kg	< 0.005mg/kg	Pass
Nickel (Ni)	≤ 75mg/kg	≤ 18.8mg/kg	≤ 930mg/kg	1.44mg/kg	Pass
Selenium (Se)	≤ 37.5mg/kg	≤ 9.4mg/kg	≤ 460mg/kg	< 0.5mg/kg	Pass
Strontium (Sr)	≤ 4,500mg/kg	≤ 1,125mg/kg	≤ 56,000mg/kg	< 0.5mg/kg	Pass
Tin (Sn)	≤ 15,000mg/kg	≤ 3,750mg/kg	≤ 180,000mg/kg	< 0.5mg/kg	Pass
Organic Tin (Sn)	≤ 0.9mg/kg	≤ 0.2mg/kg	≤ 12mg/kg	< 0.5mg/kg	Pass
Zinc (Zn)	≤ 3,750mg/kg	≤ 938mg/kg	≤ 46,000mg/kg	23,000mg/kg	Pass

Report Number	LSUK.19-0159	Daga 6	
Date	15/04/2019	Page 6 of 8	
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Discussion	EN 71-3 is relevant to all materials that may become a hazard due to sucking, licking, swallowing or prolonged skin contact. The test specimen(s) submitted have been assessed against the requirements of category III.
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CONCLUSIONS

The test specimen(s) submitted met the requirements of EN 71-3:2013+A3:2018 when tested under laboratory conditions.

The results relate only to the test specimen(s) received and tested.

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Report Number	LSUK.19-0159	Page 7.	
Date	15/04/2019	Page 7 of 8	
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APPENDIX

Cross-reference table for determining categories

Toy Material	Category I	Category II	Category III
Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings			Х
Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles			Х
Paper and paper board			X
Textiles, whether natural or synthetic			Х
Glass, ceramic, metallic materials			Х
Other materials whether mass coloured or not (e.g. wood, fibre board, hard board, bone and leather)			Х
Compressed paint tablets, materials intended to leave a trace or similar materials in solid form appearing as such in the toy (e.g. the cores of colouring pencils, chalk, crayons)	х		
Pliable modelling materials, including modelling clays and plaster [3]	×		
Liquid paints, including finger paints, varnishes, lacquers, liquid ink in pens and similar materials in liquid form appearing as such in the toy (e.g., slimes, bubble solution)		Х	
Glue sticks		X	

Report Number	LSUK.19-0159	Page 8 of	
Date	15/04/2019	Page 8	
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