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EN 71-3:2013+A3:2018

SAFETY OF TOYS — PART 3: MIGRATION OF CERTAIN ELEMENTS

MATCHWINNER VELOUR MV1150

CLIENT	Playrite Synthetic Surfaces
CLIENT ADDRESS	Wellington Mills Liversedge West Yorkshire WF15 7FH United Kingdom
CLIENT CONTACT	Maria Myzak (Technical Manager)

REPORT NUMBER	LSUK.19-0096		
REVISION NUMBER & DATE	1.0 19/02/2019		
REPORTED BY	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 textile carpet 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 11/02/2019.
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Scope of Testing / Project	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:
	 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.
	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)	Needle-punched textile carpet referred to as "Matchwinner Velour MV1150" in two fibre colours, "Summer Green" and "Yellow".
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TECHNICAL REPORT



TEST RESULTS MIGRATION OF CERTAIN ELEMENTS

Matchwinner Velour MV1150 in Summer Green

Element	Requirement			N A	Category III
Liement	Category I	Category II	Category III	Measured result	Pass / Fail
Aluminium (Al)	≤ 5,625mg/kg	≤ 1,406mg/kg	≤ 70,000mg/kg	1.9mg/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	1.2mg/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	0.7mg/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	14.4mg/kg	Pass

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TECHNICAL REPORT



TEST RESULTS MIGRATION OF CERTAIN ELEMENTS	
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Matchwinner Velour MV1150 in Yellow

Element	Requirement				Category III
Liement	Category I	Category II	Category III	Measured result	Pass / Fail
Aluminium (Al)	≤ 5,625mg/kg	≤ 1,406mg/kg	≤ 70,000mg/kg	1.9mg/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	1.05mg/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	5.5mg/kg	Pass

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Discussion	While not a synthetic sport or playground surface material requirement, EN 71-3 relevant to all materials that may become a hazard due to sucking, licking, swallowing prolonged skin contact. The test specimen(s) submitted have been assessed against the requirements of category III.	
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.	
DISCLAIMER	Results mentioned in this report are only valid for the materials sample as they are defined in the present document. Labosport and SYPAC have not verified the sampling location(s) and therefore do not assume any liability or responsibility to the user or other third party, for the accuracy, completeness or representativeness of the sample analysed. Any party who makes use of any part of this report (a "User") does so at its own risk and shall indemnify Labosport, SYPAC and their officers, directors, servants, consultants and agents against all claims, proceedings, actions, damages, costs, expenses and any other liabilities for loss or damage to any property, or injury or death to any person that may be made against or incurred by Labosport or SYPAC arising out of or in connection with	

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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			X
Glass, ceramic, metallic materials			X
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	

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