

Laboratory Test Report

REPORT NUMBER: 43051601

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Prepared for: Bill Voyce
Voyik Group Ltd, Mill house
2 Hill street, Stogumber
Taunton

Sample described as: OCCULO

Number of samples: 2

Date received: 16/05/2023

Packaging: Supplied without packaging.

Condition: visibly undamaged condition.

Batch: N/S

Description: Black plastic puzzle toy containing a solid metal sphere.

Reference number(s): N/S

Date(s) tested: 16/05/2023 - 26/05/2023

Declared age: 7+

Tested age grade: 5+

PO/Order number: N/S

Photo of submitted sample

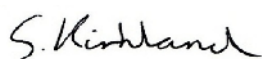


UKAS Accreditation is claimed via the laboratory's flexible scope.

I certify that the above mentioned sample has been tested in accordance with the standard / regulation(s) specified below and that it complies or otherwise as follows:

EN 71-1:2014+A1:2018 Mechanical & Physical	PASS
EN 71-2:2020 Flammability	PASS
EN 71-3:2019 + A1:2021 Migration of certain elements	PASS

Prepared by



Gareth Kirkland, Technical Services Manager

For and on behalf of

Eurofins MTS Consumer Product Testing UK Ltd



Mathew Boddy, Analytical Lab Supervisor

Date: 26/05/2023

The results herein relate only to the items tested. This report is issued in accordance with Eurofins MTS Consumer Product Testing UK Ltd's terms and conditions which are available on request.



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EN 71-1:2014+A1:2018 Mechanical & Physical**4.1 Material Cleanliness** **PASS**

The toys and their materials were visually clean and free from infestation.

4.7 Edges **PASS**

No accessible sharp edges or hazardous burrs were found.

4.8 Points and metallic wires **PASS**

No technically accessible wires or sharp points were found.

6 Packaging **PASS**

Packaging is defined as material accompanying a toy with no intended play function.

The packaging was not in the form of plastic bags, plastic sheeting, small balls, rounded cylinders or hemispheres.

7.1 Labelling - General **PASS****7.2 Labelling - Toys not intended for under 36 months** **PASS**

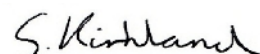
No warning required by this clause of the standard.

7.3-7.26 Labelling - Specific warnings **PASS**

The toy was not of a type that requires a specific warning.

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EN 71-2:2020 Flammability**4.1 General requirements****PASS**

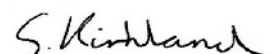
No celluloid or material with the same behaviour in fire present.

No material with a pile surface present.

No flammable gases, extremely flammable liquids or prohibited highly flammable liquids, flammable liquids or flammable gels were contained by the toy.

~~~End of page~~~

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Category III - Scraped off material**PASS**

The EN 71-3 screening test used by MTS (UK) tests for the migration of 16 of the 19 'elements' restricted by EN 71-3:2019+A1:2021;

It does not test for the presence of chromium III, chromium VI or organic tin specifically, it does however test for chromium and tin and compliance with the limits for chromium III, chromium VI or organic tin may be inferred from low results from these analyses (see below).

A. Black plastic

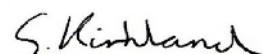
The material(s) complied with the limits of the 16 elements specifically analysed for (see analysis table).

The migration of tin from the sample(s) was determined to be not greater than 4.9 mg/kg, which, when expressed in the form of tributyl tin, would not be greater than the organic tin limit of 12 mg/kg, the material(s) can therefore be inferred as complying with the organic tin limit.

The migration of chromium from the sample(s) was not greater than the chromium III limit of 460 mg/kg or the chromium VI limit of 0.053 mg/kg, the material(s) can therefore be inferred as complying with the chromium III and chromium VI limits.

~~~End of page~~~

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Method of test: EN 71-3:2019 + A1:2021 Migration of certain element

ANALYSIS RESULTS

Category 3

Date of test: 17/05/2023

Samples marked \* were sieved, those marked # were centrifuged. Details of additional acid required to lower pH and solvent used for extraction appear in [ ] in sample description.  
Deviations from standard method: pH of conventional polymers and textiles not checked; samples only filtered if required to prevent ICP blockages.  
Solid to acid extractant ratio exceeded 1:50 with sample weights below 100 mg and when additional acid was used to lower pH.  
Quantities of soluble metals determined by inductively coupled plasma spectroscopy.  
Test results marked ^ are within the area to which uncertainty of measurement applies & compliance/non-compliance cannot be inferred.

|   | Metals                | Al    | Sb    | As    | Ba    | B     | Cd     | Cr      | Co    | Cu    | Pb    | Mn    | Hg    | Ni    | Se    | Sr    | Sn     | Zn    |
|---|-----------------------|-------|-------|-------|-------|-------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
|   | Limits                | 28130 | 560   | 47    | 18750 | 15000 | 17     | 460.053 | 130   | 7700  | 23    | 15000 | 94    | 930   | 460   | 56000 | 180000 | 46000 |
|   | Wt (Mg)               |       |       |       |       |       |        |         |       |       |       |       |       |       |       |       |        |       |
| A | 208<br>END OF SAMPLES | < 3   | < 0.5 | < 0.3 | < 2   | < 4   | < 0.03 | < 0.030 | < 0.1 | < 1   | < 0.3 | < 1   | < 0.3 | < 1   | < 3   | < 0.5 | < 2    | < 1   |
|   | Uncert%               | 20.62 | 33.17 | 24.50 | 33.17 | 20.62 | 24.50  | 24.50   | 24.50 | 20.62 | 33.17 | 20.62 | 33.17 | 24.50 | 24.50 | 20.62 | 33.17  | 20.62 |

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### ANNEX A: DECISION RULES

|        |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule 1 | <p>Applicable to any requirement stated to be 'Minimum xxxx' or 'Maximum xxxx':</p> <p>The use of constrained simple acceptance based on the difference between the stated limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is <math>\leq 2.5\%</math></p>                                   |
| Rule 2 | <p>Applicable to any requirement stated to be a range (e.g. XXX to YYY or <math>AAA \pm B</math>):</p> <p>The use of constrained simple acceptance based on the difference between the stated upper or lower limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is <math>\leq 2.5\%</math></p> |
| Rule 3 | <p>For tests based on subjective grading of a result using a 9-point scale (e.g. colour fastness, pilling, etc):</p> <p>Simple acceptance based on the test uncertainty ratio (T.U.R.) being <math>\geq 4</math>. The risk of false accept or false reject is up to 50% but will be reduced the further the reported result is away from the stated requirement.</p>                                                          |
| Rule 4 | <p>For tests based on a subjective assessment of a property (e.g. whether a component detaches or not):</p> <p>Simple acceptance based upon the conditions of testing falling within the criteria for test set out in the test method within a conformance probability of 95%. The risk of false accept or false reject of the testing conditions not meeting the specified requirements is 2.5%.</p>                         |
| Rule 5 | <p>If a validated test method (e.g. BS EN ISO standard) indicates that the measurement uncertainty has already been taken into account when calculating the test result then results may be reported using simple acceptance without the need for the application of the relevant decision rule set out above.</p>                                                                                                            |

The above rules will be applied by default unless we have agreed a decision rule to the contrary. Eurofins MTS Consumer Product Testing UK Limited reserves the right to refuse to apply decision rules that do not satisfy the requirements of ISO 17025:2017. Unless otherwise stated in the report text above, uncertainty of measurement values are available upon request.