



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TOY SAFETY TEST REPORT

TEST REPORT NUMBER : CNB3170918-00720-T-R1



CTS (Ningbo) Testing Service Technology Co., Ltd.
Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo,
Zhejiang, China.

TEST REPORT

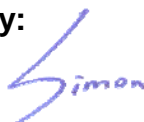
| | |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant: | MIDOCEAN BRANDS B.V. |
| Address: | HERMESWEG 9 3771 ND BARNEVELD THE NETHERLANDS |
| Manufacturer: | |
| Samples: | CRAYON SET |
| Sample Description: | CRAYON SET |
| Item No.: | IT1329 |
| Sample Quantity: | 2 Sets |
| Date of Sample Received: | 18 Sept. 2017 |
| Test Address: | CTS (Ningbo) Testing Service Technology Co., Ltd. Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd.,Hi-Tech Zone, Ningbo, Zhejiang, China (EN71-1 and EN71-2 were tested by CTS (Guangzhou) Testing Service Technology Co., Ltd.) |
| Testing Period: | 18 Sept. 2017 - 18 Jan. 2018 |
| Test Requested: | EN 71-1: 2014 Safety of toys— Part 1: Mechanical and physical properties EN 71-2: 2011+A1:2014 Safety of toys —Part 2: Flammability EN 71-3: 2013+A2:2017 Safety of toys — Part 3: Migration of Certain Elements |
| Labeled Age Grading: | For ages 3 up |
| Test Age Grading: | For ages 3 up |
| Test Method: | As specified in the above standards |
| Test Results: | See the attachment in detail |



Written by:



Reviewed by:



Approved by:


Date: 19 Jan. 2018Date: 19 Jan. 2018Date: 19 Jan. 2018

TEST REPORT

Test Results:

(1) Mechanical and Physical Properties

As Specified in European Standard on Safety of Toys EN 71-1: 2014

| EN 71-1: 2014 | | | |
|---------------|-----------|--------|---------|
| Clause | Test Item | Remark | Verdict |

| | | | |
|----------|--------------------------------------------------------------------------------------|----------|----------|
| 4 | General requirements | | — |
| 4.1 | Material cleanliness (Visual examination) | No stain | P |
| 4.2 | Assembly | --- | N |
| 4.3 | Flexible plastic sheeting | --- | N |
| 4.4 | Toy bags | --- | N |
| 4.5 | Glass | --- | N |
| 4.6 | Expanding materials | --- | N |
| 4.7 | Edges | --- | P |
| 4.8 | Points and metallic wires | --- | P |
| 4.9 | Protruding parts | --- | N |
| 4.10 | Parts moving against each other | --- | N |
| 4.11 | Mouth-actuated toys and other toys intended to be put in the mouth | --- | N |
| 4.12 | Balloons | --- | N |
| 4.13 | Cords of toy kites and other flying toys | --- | N |
| 4.14 | Enclosures | --- | N |
| 4.15 | Toys intended to bear the mass of a child | --- | N |
| 4.16 | Heavy immobile toys | --- | N |
| 4.17 | Projectiles | --- | N |
| 4.18 | Aquatic toys and inflatable toys | --- | N |
| 4.19 | Percussion caps specifically designed for use in toys and toys using percussion caps | --- | N |
| 4.20 | Acoustics | --- | N |
| 4.21 | Toys containing a non-electrical heat source | --- | N |
| 4.22 | Small balls | --- | N |
| 4.23 | Magnets | --- | N |
| 4.24 | Yo-yo balls | --- | N |
| 4.25 | Toys attached to food | --- | N |

TEST REPORT

| EN 71-1: 2014 | | | |
|---------------|-----------|--------|---------|
| Clause | Test Item | Remark | Verdict |

| | | | |
|----------|---------------------------------------------------------------|-----|---|
| 5 | Toys intended for children under 36 months | | — |
| 5.1 | General requirements | --- | N |
| 5.2 | Soft-filled toys and soft-filled parts of a toy | --- | N |
| 5.3 | Plastic sheeting | --- | N |
| 5.4 | Cords, chains and electrical cables in toys | --- | N |
| 5.5 | Liquid-filled toys | --- | N |
| 5.6 | Speed limitation of electrically-driven ride-on toys | --- | N |
| 5.7 | Glass and porcelain | --- | N |
| 5.8 | Shape and size of certain toys | --- | N |
| 5.9 | Toys comprising monofilament fibres | --- | N |
| 5.10 | Small balls | --- | N |
| 5.11 | Play figures | --- | N |
| 5.12 | Hemispheric-shaped toys | --- | N |
| 5.13 | Suction cups | --- | N |
| 5.14 | Straps intended to be worn fully or partially around the neck | --- | N |

| | | | |
|----------|------------------|-----|---|
| 6 | Packaging | --- | N |
|----------|------------------|-----|---|

| | | | |
|----------|---------------------------------------------------------------------------------|-----|---|
| 7 | Warnings, markings and instructions for use | --- | — |
| 7.1 | General | --- | P |
| 7.2 | Toys not intended for children under 36 months | --- | P |
| 7.3 | Latex balloons | --- | N |
| 7.4 | Aquatic toys | --- | N |
| 7.5 | Functional toys | --- | N |
| 7.6 | Hazardous sharp functional edges and points | --- | N |
| 7.7 | Projectiles | --- | N |
| 7.8 | Imitation projective masks and helmets | --- | N |
| 7.9 | Toy kites | --- | N |
| 7.10 | Roller skates, inline skates, skateboards and certain other ride-on toys | --- | N |
| 7.11 | Toys intended to be attached to or strung across a cradle, cot, or perambulator | --- | N |

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| EN 71-1: 2014 | | | |
|---------------|-------------------------------------------------------------------------------------------|--------|---------|
| Clause | Test Item | Remark | Verdict |
| 7.12 | Liquid-filled teethers | --- | N |
| 7.13 | Percussion caps specifically designed for use in toys | --- | N |
| 7.14 | Acoustics | --- | N |
| 7.15 | Toy bicycles | --- | N |
| 7.16 | Toys intended to bear the mass of a child | --- | N |
| 7.17 | Toys comprising monofilament fibres | --- | N |
| 7.18 | Toy scooters | --- | N |
| 7.19 | Rocking horses and similar toys | --- | N |
| 7.20 | Magnetic/electrical experimental sets | --- | N |
| 7.21 | Toys with electrical cables exceeding 300 mm in length | --- | N |
| 7.22 | Toys with cords or chains intended for children of 18 months and over but under 36 months | --- | N |

Abbreviation : P = Pass ; N = Not Applicable

Note: All TEST RESULTS ARE ONLY VALID FOR THE SAMPLES BEING TESTED.

TEST REPORT

(2) Flammability Test

As Specified in European Standard on Safety of Toys EN 71-2: 2011+A1:2014

| EN 71-2: 2011+A1:2014 | | | |
|-----------------------|-----------------------------------------------------------------------|--------|----------|
| Clause | Requirement – Test | Remark | Verdict |
| 4 | Requirements | | — |
| 4.1 | General requirements | --- | P |
| 4.2 | Toys to be worn on the head | --- | N |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play | --- | N |
| 4.4 | Toys intended to be entered by a child | --- | N |
| 4.5 | Soft-filled toys | --- | N |

Abbreviation : P = Pass ; N = Not Applicable

Note: All TEST RESULTS ARE ONLY VALID FOR THE SAMPLES BEING TESTED.

TEST REPORT

(3) Migration of Certain Elements

With reference to EN 71-3:2013+A2:2017.

a) Extractable Chromium (VI) – Analysis was performed by IC-UV/VIS.

b) Extractable Organic Tin – Analysis was performed by GC/MS.

c) All other elements – Analysis was performed by Inductively Coupled Argon Plasma –Atomic Emission Spectrometry.

Category III

| Element | Unit | Limit | Result | | | |
|---------------------------------------|-------|---------|--------|------|------|------|
| | | | No.1 | No.2 | No.3 | No.4 |
| Extractable Aluminium (Al) | mg/kg | 70,000 | <50 | <50 | <50 | <50 |
| Extractable Antimony (Sb) | mg/kg | 560 | <5 | <5 | <5 | <5 |
| Extractable Arsenic (As) | mg/kg | 47 | <5 | <5 | <5 | <5 |
| Extractable Barium (Ba) | mg/kg | 18,750 | <50 | <50 | <50 | <50 |
| Extractable Boron (B) | mg/kg | 15,000 | <50 | <50 | <50 | <50 |
| Extractable Cadmium (Cd) | mg/kg | 17 | <3 | <3 | <3 | <3 |
| Extractable Chromium (III) (Cr (III)) | mg/kg | 460 | <5 | <5 | <5 | <5 |
| Extractable Chromium (VI) (Cr (VI)) | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Extractable Cobalt (Co) | mg/kg | 130 | <5 | <5 | <5 | <5 |
| Extractable Copper (Cu) | mg/kg | 7,700 | <50 | <50 | <50 | <50 |
| Extractable Lead (Pb) | mg/kg | 23 | <5 | <5 | <5 | <5 |
| Extractable Manganese (Mn) | mg/kg | 15,000 | <50 | <50 | <50 | <50 |
| Extractable Mercury (Hg) | mg/kg | 94 | <5 | <5 | <5 | <5 |
| Extractable Nickel (Ni) | mg/kg | 930 | <5 | <5 | <5 | <5 |
| Extractable Selenium (Se) | mg/kg | 460 | <5 | <5 | <5 | <5 |
| Extractable Strontium (Sr) | mg/kg | 56,000 | <50 | <50 | <50 | <50 |
| Extractable Tin (Sn) | mg/kg | 180,000 | <1 | <1 | <1 | <1 |
| Extractable Organic Tin | mg/kg | 12 | <0.2 | <0.2 | <0.2 | <0.2 |
| Extractable Zinc (Zn) | mg/kg | 46,000 | <50 | <50 | <50 | <50 |
| Conclusion | | | PASS | PASS | PASS | PASS |

TEST REPORT

| Element | Unit | Limit | Result | | |
|---------------------------------------|-------|---------|--------|------|------|
| | | | No.5 | No.6 | No.7 |
| Extractable Aluminium (Al) | mg/kg | 70,000 | <50 | <50 | <50 |
| Extractable Antimony (Sb) | mg/kg | 560 | <5 | <5 | <5 |
| Extractable Arsenic (As) | mg/kg | 47 | <5 | <5 | <5 |
| Extractable Barium (Ba) | mg/kg | 18,750 | <50 | <50 | <50 |
| Extractable Boron (B) | mg/kg | 15,000 | <50 | <50 | <50 |
| Extractable Cadmium (Cd) | mg/kg | 17 | <3 | <3 | <3 |
| Extractable Chromium (III) (Cr (III)) | mg/kg | 460 | <5 | <5 | <5 |
| Extractable Chromium (VI) (Cr (VI)) | mg/kg | 0.2 | <0.2 | <0.2 | <0.2 |
| Extractable Cobalt (Co) | mg/kg | 130 | <5 | <5 | <5 |
| Extractable Copper (Cu) | mg/kg | 7,700 | <50 | <50 | <50 |
| Extractable Lead (Pb) | mg/kg | 23 | <5 | <5 | <5 |
| Extractable Manganese (Mn) | mg/kg | 15,000 | <50 | <50 | <50 |
| Extractable Mercury (Hg) | mg/kg | 94 | <5 | <5 | <5 |
| Extractable Nickel (Ni) | mg/kg | 930 | <5 | <5 | <5 |
| Extractable Selenium (Se) | mg/kg | 460 | <5 | <5 | <5 |
| Extractable Strontium (Sr) | mg/kg | 56,000 | <50 | <50 | <50 |
| Extractable Tin (Sn) | mg/kg | 180,000 | <1 | <1 | <1 |
| Extractable Organic Tin | mg/kg | 12 | <0.2 | <0.2 | <0.2 |
| Extractable Zinc (Zn) | mg/kg | 46,000 | <50 | <50 | <50 |
| Conclusion | | | PASS | PASS | PASS |

TEST REPORT

Category I

| Element | Unit | Limit | Result | | | |
|---------------------------------------|-------|-------|--------|-------|-------|-------|
| | | | No.8 | No.9 | No.10 | No.11 |
| Extractable Aluminium (Al) | mg/kg | 5625 | <50 | <50 | <50 | <50 |
| Extractable Antimony (Sb) | mg/kg | 45 | <5 | <5 | <5 | <5 |
| Extractable Arsenic (As) | mg/kg | 3.8 | <3 | <3 | <3 | <3 |
| Extractable Barium (Ba) | mg/kg | 1500 | <50 | <50 | <50 | <50 |
| Extractable Boron (B) | mg/kg | 1200 | <50 | <50 | <50 | <50 |
| Extractable Cadmium (Cd) | mg/kg | 1.3 | <1 | <1 | <1 | <1 |
| Extractable Chromium (III) (Cr (III)) | mg/kg | 37.5 | <5 | <5 | <5 | <5 |
| Extractable Chromium (VI) (Cr (VI)) | mg/kg | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Extractable Cobalt (Co) | mg/kg | 10.5 | <5 | <5 | <5 | <5 |
| Extractable Copper (Cu) | mg/kg | 622.5 | <50 | <50 | <50 | <50 |
| Extractable Lead (Pb) | mg/kg | 2 | <1 | <1 | <1 | <1 |
| Extractable Manganese (Mn) | mg/kg | 1200 | <50 | <50 | <50 | <50 |
| Extractable Mercury (Hg) | mg/kg | 7.5 | <5 | <5 | <5 | <5 |
| Extractable Nickel (Ni) | mg/kg | 75 | <5 | <5 | <5 | <5 |
| Extractable Selenium (Se) | mg/kg | 37.5 | <5 | <5 | <5 | <5 |
| Extractable Strontium (Sr) | mg/kg | 4500 | <50 | <50 | <50 | <50 |
| Extractable Tin (Sn) | mg/kg | 15000 | <1 | <1 | <1 | <1 |
| Extractable Organic Tin | mg/kg | 0.9 | <0.2 | <0.2 | <0.2 | <0.2 |
| Extractable Zinc (Zn) | mg/kg | 3750 | <50 | <50 | <50 | <50 |
| Conclusion | | | PASS | PASS | PASS | PASS |

TEST REPORT

| Element | Unit | Limit | Result | |
|---------------------------------------|-------|-------|--------|-------|
| | | | No.12 | No.13 |
| Extractable Aluminium (Al) | mg/kg | 5625 | <50 | <50 |
| Extractable Antimony (Sb) | mg/kg | 45 | <5 | <5 |
| Extractable Arsenic (As) | mg/kg | 3.8 | <3 | <3 |
| Extractable Barium (Ba) | mg/kg | 1500 | <50 | <50 |
| Extractable Boron (B) | mg/kg | 1200 | <50 | <50 |
| Extractable Cadmium (Cd) | mg/kg | 1.3 | <1 | <1 |
| Extractable Chromium (III) (Cr (III)) | mg/kg | 37.5 | <5 | <5 |
| Extractable Chromium (VI) (Cr (VI)) | mg/kg | 0.02 | <0.02 | <0.02 |
| Extractable Cobalt (Co) | mg/kg | 10.5 | <5 | <5 |
| Extractable Copper (Cu) | mg/kg | 622.5 | <50 | <50 |
| Extractable Lead (Pb) | mg/kg | 2 | <1 | <1 |
| Extractable Manganese (Mn) | mg/kg | 1200 | <50 | <50 |
| Extractable Mercury (Hg) | mg/kg | 7.5 | <5 | <5 |
| Extractable Nickel (Ni) | mg/kg | 75 | <5 | <5 |
| Extractable Selenium (Se) | mg/kg | 37.5 | <5 | <5 |
| Extractable Strontium (Sr) | mg/kg | 4500 | <50 | <50 |
| Extractable Tin (Sn) | mg/kg | 15000 | <1 | <1 |
| Extractable Organic Tin | mg/kg | 0.9 | <0.2 | <0.2 |
| Extractable Zinc (Zn) | mg/kg | 3750 | <50 | <50 |
| Conclusion | | | PASS | PASS |

- Note
1. <= less than
 2. Unit: mg/kg = ppm
 3. Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III : Scraped-off

Solid toy material with or without a coating, which can be ingested

TEST REPORT

as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

4. The report is amended from the report CNB3170918-00720-T.
The report CNB3170918-00720-T become invalid.

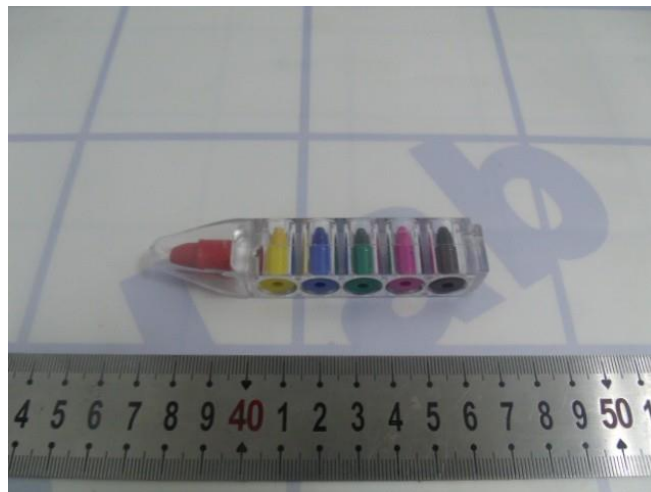
Test Part Description :

- No.1 : Red plastic
- No.2 : Green plastic
- No.3 : Yellow plastic
- No.4 : Blue plastic
- No.5 : Deep brown plastic
- No.6 : Pink plastic
- No.7 : Transparent plastic cover
- No.8 : Red crayon
- No.9 : Green crayon
- No.10 : Yellow crayon
- No.11 : Blue crayon
- No.12 : Deep brown crayon
- No.13 : Pink crayon

TEST REPORT

APPENDIX

PHOTO OF THE SUBMITTED SAMPLE(S)



External view

CE Warning! Not suitable for children under 3 years due to small parts.
¡Advertencia! No destinado a menores de 3 años por que puede causar asfixia debido a que contiene partes pequeñas.

Please retain the name and address for future reference
Conserve estos datos para futuras referencias.

Item No: IT1329-22
MOB, PO BOX 434, 3770 AK (NL)
NL806979069
Vendor code: 111041
MADE IN CHINA

Marking

Remark : The original report of No. CNB3170918-00720-T was replaced by this new test report.

-----end of report-----