



中国认可
检测
TESTING
CNAS L2304

CONSUMER PRODUCTS SERVICES DIVISION

SMARTGURLZ AQS

Technical Report: (8516)245-0395
Date Received: September 22, 2016

September 23, 2016
Page 1 of 17

JESPER NISSEN
SMARTGURLZ AQS
SKODSBORG STRANDVEJ 262A,
2942 SKODSBORG,
DENMARK

| | | | |
|-----------------------------|---------------------|--------------------|-------------------|
| Sample Description: | SIGGY1 | Sample Size: | 12 |
| | 1.) SIGGY1 | Style No(s): | SG16301 & SG16401 |
| | 2.) PARTS | SKN/SKU No.: | N/A |
| Vendor: | N/A | PO No.: | N/A |
| Manufacturer: | N/A | Ref #: | N/A |
| Buyer: | N/A | Country of Origin: | CHINA |
| Labeled Age Grade: | N/A | Assortment No.: | N/A |
| Appropriate Age Grade: | N/A | | |
| Client Specified Age Grade: | N/A | | |
| Grade: | | | |
| Tested Age Grade: | OVER 6 YEARS OF AGE | | |
| UPC Code: | N/A | | |
| Test Starting Date: | SEPTEMBER 22, 2016 | | |
| Test Finished Date: | SEPTEMBER 23, 2016 | | |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 2 of 17

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014, clauses 1-7.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+ A1: 2014.

The style # 1 sample(s) MEET the following requirement(s):

- The migration of certain elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A1:2014.

Note: The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was not subject to migration of certain elements of European Standard, "Safety of Toys", EN 71 Part 3: 2013 + A1:2014, as specified in Clause 7.1 - Selection of test portions.

Note: According to TSD 2009/48/EC, the manufacturers/ importer shall indicate their name, registered trade name or registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.

Note: The sample received is appropriate for children under 36 months of age as determined by virtue of its function, dimension and characteristics. The age warning ("Not suitable for children under 36 months") and associated graphical symbol for age restriction are not appropriate and should be removed.

BUREAU VERITAS SHENZHEN CO.,LTD

BUREAU VERITAS SHENZHEN CO., LTD.

Choy Hon Kwong, Adams
Senior Manager
Analytical Department

Simon Chan
Manager
Toys And Juvenile Products Department

AC/SC/ eo

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中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 3 of 17

RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

| | |
|--|---|
| The Appropriate Age Grade is determined with reference to the EN71 : Part 1 : 2014, CR 14379:2002 "Classification of toys-Guidelines" prepared by Technical Committee CEN TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC). | |
| Note : | The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing. |
| Note : | If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing. |

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

| Symbol | Explanation | | | | |
|--------|---|--------|--------------------|--------|---------------------|
| NM | The sample(s) DOES NOT MEET the requirement of this Subclause | | | | |
| M | The sample(s) MEET the requirement of this Subclause | | | | |
| N/A | Not Applicable | | | | |
| NR | Not Requested | | | | |
| NE | Not Evaluated | | | | |
| NT | Not Tested | | | | |
| NP | None Present | | | | |
| P | Present | | | | |
| R | Refer to Comment Section of this report | | | | |
| Symbol | Language Present | Symbol | Language Present | Symbol | Language Present |
| B | Belgian language | G | German language | PR | Portuguese language |
| D | Danish language | GR | Greek language | S | Spanish language |
| E | English language | H | Dutch language | SD | Swedish language |
| F | Finnish language | I | Italian language | SZ | Swiss language |
| FR | French language | N | Norwegian language | | |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: (8516)245-0395
September 23, 2016
Page 4 of 17

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014)**

| Subclause | Requirement | Result |
|---|--|--------|
| 4.1 | Material cleanliness | M |
| 4.2 | Assembly | NA |
| 4.3 | Flexible plastic sheeting | NA |
| 4.4 | Toy Bags | NA |
| 4.5 | Glass | NA |
| 4.6 | Expanding materials | NA |
| 4.7 & 7.6 | Edges | M |
| 4.8 & 7.6 | Points and metallic wires | M |
| 4.8e | Splinters | M |
| 4.9 | Protruding parts | NA |
| 4.10.1 | Folding and sliding mechanisms | NA |
| 4.10.2 | Driving mechanisms | M |
| 4.10.3 | Hinges | NA |
| 4.10.4 | Springs | NA |
| 4.11 | Mouth actuated toys and other toys intended to be put in the mouth | NA |
| 4.12 & 7.3 | Balloons | NA |
| 4.13 & 7.9 | Cord of toy kites and other flying toys | NA |
| 4.14.1 | Toys which a child can enter | NA |
| 4.14.2 & 7.8 | Masks and helmets | NA |
| 4.15.1 | Toys propelled by child | |
| 4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16 | Toys propelled by child – Instructions for use | NA |
| 4.15.1.3 | Toys propelled by child – Strength | NA |
| 4.15.1.4 | Toys propelled by child – Stability | NA |
| 4.15.1.5 | Toys propelled by child – Braking | NA |
| 4.15.1.6 | Toys propelled by child - Transmission | NA |
| 4.15.1.7 | Toys propelled by child – insertion mark | NA |
| 4.15.1.8 | Electrically-driven ride-on toys | NA |
| 4.15.2 | Toy bicycles | |
| 4.15.2.2 & 7.15 | Toy bicycles – Warnings and instructions for use | NA |
| 4.15.2.3 | Toy bicycles – Braking | NA |
| 4.15.3 & 7.16 & 7.19 | Rocking horses and similar toys | NA |
| 4.15.4 & 7.16 | Toys not propelled by child | NA |
| 4.15.5 & 7.18 | Toy scooters | NA |
| 4.16 | Heavy immobile toys | NA |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 5 of 17

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014)**

| Subclause | Requirement | Result |
|---|---|--------|
| 4.17.1 | Projectiles – General | NA |
| 4.17.2 | Projectiles toys without stored energy | NA |
| 4.17.3 & 7.7 | Projectile toys with stored energy | NA |
| 4.17.4 & 7.7 | Bows and arrows | NA |
| 4.18 & 7.4 | Aquatic toys and inflatable toys | NA |
| 4.19 & 7.13 & 7.14 | Percussion caps | NA |
| *4.20.2.1-4.20.2.8, 4.20.2.10, 4.20.2.12 | Acoustics | M |
| 4.20.2.9, 4.20.2.11 & 7.14 | Acoustics – percussion toys & cap-firing toys | NA |
| 4.21 | Toys containing a non-electrical heat source | NA |
| 4.22 & 7.2 | Small balls | NA |
| 4.23 | Magnet | |
| 4.23.2 a, b & c | Toy other than magnetic / electrical experimental sets intended for children over 8 years | NA |
| 4.23.3 & 7.20 | Magnetic / electrical experimental sets intended for children over 8 years | NA |
| 4.24 | Yo-yo ball | NA |
| 4.25 | Toys attached to food | NA |
| FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS | | |
| 5 | Cleaning instruction for item intended for child under 3 years of age | NA |
| 5.1 | General | NA |
| 5.1a | Small parts – as received | NA |
| 5.1b | Small parts, sharp points, sharp edges – after tests | NA |
| 5.1c | Cross section <2mm metal points & wires | NA |
| 5.1e | Toys contain glue | NA |
| 5.1f | Casing of toys | NA |
| 5.2 | Fillings, coverings and seams | NA |
| 5.3 | Adhesion of plastic sheeting | NA |
| 5.4 & | Cords on toys | NA |
| 5.4(a) | Cords connected to self-retraction mechanism or in pull along toys | NA |
| 5.4(b) & 7.22 | Cords and chains that can form tangled loop or noose | NA |
| 5.4(c) & 7.22 | Fixed loop of cords or chains | NA |
| 5.4(d) | Nooses | NA |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 6 of 17

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014)**

| Subclause | Requirement | Result |
|---------------------------------------|---|--------|
| 5.4(e) | Self-retraction mechanism | NA |
| 5.4(f) & 7.11 | Toy across cradle, cot or perambulator | NA |
| 5.4(g) & 7.22 | Cords and chains with free end (exclude pull along toy) | NA |
| 5.4(h) | Cords and chains with free end on pull along toy | NA |
| 5.4(i) & 7.21 | Electrical cables | NA |
| 5.5 & 7.12 | Liquid filled toys | NA |
| 5.6 | Electrically driven toys | NA |
| 5.7 | Glass and porcelain | NA |
| 5.8 | Shape and size | NA |
| 5.9 & 7.17 | Monofilament fibres | NA |
| 5.10 | Small balls | NA |
| 5.11 | Play figures | NA |
| 5.12 | Hemispheric shaped toys | NA |
| 5.13 | Suction cups | NA |
| 5.14 | Straps intended to be worn fully or partially around the neck | NA |
| 6 | Packaging | NA |
| WARNINGS, INSTRUCTIONS FOR USE | | |
| 7 | CE Mark | M |
| 7 | Manufacturer name and address | M |
| 7 | Importer name and address | M |
| 7 | Product Identification | M |
| 7.1 | General | NA |
| 7.2 | Toys not intended for children under 36 months | NA |
| 7.5 | Functional toys | NA |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 7 of 17

RESULTS:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

| Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method |
|------------|--|------------|---|------------|--|------------|---|
| 4.3 | 8.25.1 | 4.14.2 | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12 | 4.17.3 | 8.24.1 | 5.3 | 8.4.2.1, 8.25 |
| 4.5 | 8.5, 8.7, 8.11, 8.12 | 4.15.1.3 | 8.11, 8.12, 8.21, 8.22 | 4.17.4 | 8.24.2 | 5.4 | 8.20, 8.36, 8.38, 8.39, 8.40 |
| 4.6 | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14 | 4.15.1.4 | 8.23.1 | 4.18 | 8.2, 8.3, 8.4.2.1 | 5.5 | 8.15 |
| 4.7 | 8.11 | 4.15.1.5 | 8.26.1 | 4.20 | 8.28 | 5.6 | 8.29 |
| 4.8 | 8.12, 8.13 | 4.15.1.8 | 8.29 | 4.21 | 8.30 | 5.8 | 8.16 |
| 4.9 | 8.4.2.3, 8.11, 8.12 | 4.15.2.4 | 8.26.2 | 4.22 | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32 | 5.10 | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32 |
| 4.10.1 | 8.18.2, 8.18.3 | 4.15.3 | 8.21, 8.23.1 | 4.23 | 8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35 | 5.11 | 8.33 |
| 4.10.2 | 8.5, 8.6, 8.7, 8.11, 8.12 | 4.15.4 | 8.21, 8.23.1 | 4.24 | 8.37 | 5.12 | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, |
| 4.11 | 8.2, 8.3, 8.4.2.1, 8.9, 8.17 | 4.15.5 | 8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27 | 4.25 | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1 | 5.13 | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32 |
| 4.13 | 8.19 | 4.16 | 8.23.2 | 5.1 | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12 | | |
| 4.14.1 | 8.31.1, 8.31.2 | 4.17.1 | 8.4.2.3 | | | | |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 8 of 17

RESULTS:

FLAMMABILITY (EN 71 PART 2: 2011 + A1: 2014)

| Subclause | Requirement | Result |
|-----------|---|--------|
| 4.1 | Cellulose nitrate | NP |
| 4.1 | Surface flash on a piled surface | NA |
| 4.1 | Flammable gases | NA |
| 4.1 | Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels | NA |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by child in play | NA |
| 4.3 | warning on product and packaging (10 - 30 mm/s) | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.4 | warning on product and packaging (10 - 30 mm/s) | NA |
| 4.5 | Soft-filled toys | NA |

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

| Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method |
|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| 4.2.2 | 5.2 | 4.2.4 | 5.3 | 4.3 | 5.4 | 4.5 | 5.5 |
| 4.2.3 | 5.3 | 4.2.5 | 5.4 | 4.4 | 5.4 | - | - |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 9 of 17

RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A1:2014)

Test Method : European Standard EN 71 Part 3: 2013+A1:2014, Annex E.

Class: Category III - Scraped off toy material

| Sample Identity | Color | Location | Style |
|-----------------|---------------------------|---------------------|-------|
| A. | yellow coating | scalp | 1 |
| B. | brown coating | scalp | 1 |
| C. | silver coating | car | 1 |
| D. | soft flesh pvc | head | 1 |
| E. | light flesh pvc | hand & foot | 1 |
| F. | white pvc | shoes | 1 |
| G. | dark flesh pvc | head | 1 |
| H. | deep flesh pvc | hand & head | 1 |
| I. | black pvc | shoes | 1 |
| J. | golden plastic | hair | 1 |
| K. | bright flesh plastic | arm, body & leg | 1 |
| L. | flat flesh plastic | joint of leg & hand | 1 |
| M. | bright deep flesh plastic | arm, body & leg | 1 |
| N. | flat deep flesh plastic | joint of leg & hand | 1 |
| O. | white plastic | bead | 1 |
| P. | translucent plastic | fastener | 1 |
| Q. | brown plastic | hair | 1 |
| R. | clear soft plastic | hairband | 1 |
| S. | purple plastic | car | 1 |
| T. | white plastic | cheel | 1 |
| U. | black soft plastic | cheel | 1 |
| V. | translucent plastic | led | 1 |
| W. | matt translucent plastic | small led | 1 |
| X. | yellow plastic | car | 1 |
| Y. | bright black plastic | handle of car | 1 |
| Z. | matt black plastic | switch | 1 |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 10 of 17

RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A1:2014)

Test Method : European Standard EN 71 Part 3: 2013+A1:2014, Annex E.

Class: Category III - Scraped off toy material

| Sample Identity | Color | Location | Style |
|-----------------|----------------------------------|----------|-------|
| AA. | army green fabric / green thread | pants | 1 |
| AB. | khaki fabric / khaki thread | bag | 1 |
| AC. | dark red fabric / red thread | coat | 1 |
| AD. | beige plush | coat | 1 |
| AE. | white fabric/ white thread | clothes | 1 |
| AF. | soft white fabric | fastener | 1 |
| AG. | multicolor fabric | dress | 1 |
| AH. | snow white cord | elastic | 1 |
| AI. | purple fabric | clothes | 1 |
| AJ. | yellow fabric | clothes | 1 |



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 16 of 17

RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A1:2014)

| Analyte | Requirement (mg/kg) | Result (mg/kg) | | | | | |
|-----------------------------|---------------------|----------------|------|---------|-----------|---------|---------|
| | | Sample ID | | | | | |
| | Category III | AE. | AF. | AG. | AH. | AI. | AJ. |
| Aluminium (Al) | 70000 | 3 | 9 | 6 | 15 | 58 | 38 |
| Arsenic (As) | 47 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Boron (B) | 15000 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Barium (Ba) | 18750 | LT 2 | LT 2 | LT 2 | 44 | LT 2 | 2 |
| Cadmium (Cd) | 17 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Cobalt (Co) | 130 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Chromium III (Cr III) | 460 | LT 0.15 | 0.17 | LT 0.15 | 0.20 | LT 0.15 | LT 0.15 |
| Chromium VI (Cr VI) | 0.2 | | | | #LT 0.002 | | |
| Copper (Cu) | 7700 | LT 2 | 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Mercury (Hg) | 94 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Manganese (Mn) | 15000 | LT 2 | LT 2 | 2 | LT 2 | 12 | LT 2 |
| Nickel (Ni) | 930 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Lead (Pb) | 160 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Antimony (Sb) | 560 | 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Selenium (Se) | 460 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Tin (Sn) | 180000 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Organic tin | 12 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Strontium (Sr) | 56000 | LT 2 | LT 2 | 4 | LT 2 | LT 2 | LT 2 |
| Zinc (Zn) | 46000 | 4 | 4 | 11 | 870 | 4 | 4 |
| Mass of trace amount (gram) | | - | - | - | - | - | - |
| Conclusion | | Pass | Pass | Pass | Pass | Pass | Pass |

mg/kg = milligrams per kilogram (ppm=parts per million) LT = Less Than

* = Average of duplicate analysis

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

= Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis
- Organic tin: EN71 part 3:2013+A1:2014, Annex G by Gas Chromatography – Mass Spectroscopy analysis.



中国认可
检测
TESTING
CNAS L2304

SMARTGURLZ AQS
Technical Report: **(8516)245-0395**
September 23, 2016
Page 17 of 17

RESULTS:



END OF REPORT