

Report No.: **158290421a 002**

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Client: ONE FOR FUN LIMITED

Contact Information: 3-5 Cambuslang Way, Gateway Office Park, Cambuslang, Glasgow, G32 8ND

Manufacturer's name: USD024

Test item(s): Toys

**Identification/
Model No(s):** Squeeze Beaded Narwal
SV15625

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2024-05-13, 2024-06-21

Testing Period: 2024-05-14 to 2024-06-28

Place of testing: Chemical laboratory Hong Kong, Toys laboratory Hong Kong

Test Specification:

Please refer to "Test Result Summary List" on page 2 for details

Other information:

Country of Origin: China

Country of Destination: EU / UK

The provided age grade of the item(s) : Not provided.

The appropriate age grade of the item(s) : Not Requested (by client)

As per client request, the item(s) was/ were tested for the age of over 3 years.

Packaging provided: No

Our reference no. of this report: 158290421a 001

For and on behalf of
TÜV Rheinland Hong Kong Ltd.



Amenda Yung/
Senior CS Manager

2024-07-09

Date

Name/Position



Wong Yiu Tong , Tommy/
Senior Lab Manager

2024-07-09

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

Test Result Summary :***Test Specification:******Test result:***

- | | |
|--|------|
| 1 EN 71-1:2014+A1:2018 Mechanical and physical properties (As per client request, Clause 7 - Warnings and instructions were excluded in this test report) | PASS |
| 2 EN 71-2:2020 Flammability | PASS |
| 3 EN 71-3:2019+A1:2021 Migration of 19 Elements | PASS |
| 4 REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52 phthalates | PASS |
| 5 Total Cadmium Content in accordance to: REACH regulation (EC) No. 1907/2006 Annex XVII Item 23 and its amendments (EC) No. 552/2009, (EU) No. 494/2011 and (EU) No. 835/2012 and (EU) No.217/2016. | PASS |
| 6 Microbial Contamination & NB-TOYS/2021-053(Rev4) | PASS |

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Material List:

Item: Squeeze Beaded Narwal
SV15625

| Material No. | Material | Color | Location |
|--------------|---------------|--------------------|---------------|
| M001 | Whole Product | Multicolor | Whole Product |
| M002 | Coating | Black | Eye |
| M003 | Plastic | Transparent White | Body, Plug |
| M004 | Plastic | Transparent | Gel Beads |
| M005 | Plastic | Transparent Blue | Gel Beads |
| M006 | Plastic | Transparent Purple | Gel Beads |
| M007 | Plastic | Transparent Pink | Gel Beads |
| M008 | Gel | Transparent | Gel |

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1. EN 71-1:2014+A1:2018 Mechanical and physical properties

| | |
|---|---------------|
| Test No: | T001 |
| Material No: | M001 |
| 4. General requirements | |
| 4.1 Material cleanliness | PASS |
| 4.7 Edges | PASS |
| 4.8 Points and metallic wires | PASS |
| 7. Warnings, markings and instructions for use | |
| 7.1 General | Not Conducted |
| 7.2 Toys not intended for children under 36 months | Not Conducted |
| 7.3 Latex balloons | Not Conducted |
| 7.4 Aquatic toys | Not Conducted |
| 7.5 Functional toys | Not Conducted |
| 7.6 Hazardous sharp functional edges and points | Not Conducted |
| 7.7 Projectile toys | Not Conducted |
| 7.8 Imitation protective masks and helmets | Not Conducted |
| 7.9 Toy kites | Not Conducted |
| 7.10 Roller skates, inline skates, skateboards and certain other ride-on toys | Not Conducted |
| 7.11 Toys otherwise intended to be strung across a cradle, cot, or perambulator | Not Conducted |
| 7.12 Liquid-filled teethingers | Not Conducted |
| 7.13 Percussion caps specifically designed for use in toys | Not Conducted |
| 7.14 Acoustics | Not Conducted |
| 7.15 Toy bicycles | Not Conducted |
| 7.16 Toys intended to bear the mass of a child | Not Conducted |
| 7.17 Toys comprising monofilament fibres | Not Conducted |
| 7.18 Toy scooters | Not Conducted |
| 7.19 Rocking horses and similar toys | Not Conducted |
| 7.20 Magnetic/ electrical experimental sets | Not Conducted |
| 7.21 Toys with electrical cables exceeding 300 mm in length | Not Conducted |

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| | |
|--|---------------|
| 7.22 Toys with cords or chains intended for children of 18 months and over but under 36 months | Not Conducted |
| 7.23 Toys intended to be attached to a cradle, cot or perambulator | Not Conducted |
| 7.24 Sledges with cords for pulling | Not Conducted |
| 7.25 Flying toys | Not Conducted |
| 7.26 Improvised projectiles | Not Conducted |

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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2. EN 71-2:2020 Flammability**Test result:**

| | |
|--------------------------|------|
| Test No: | T001 |
| Material No. | M001 |
| 4.1 General requirements | PASS |

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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3. EN 71-3:2019+A1:2021 Migration of 19 Elements

Test Method: with reference to EN 71-3:2019+A1:2021, analyzed by ICP-OES / ICP-MS / LC-ICP-MS/IC-UV/GC-MS.

3) For scraped-off toy materials:
Test Result:

| Test No. | | | | T001 | T002 |
|--------------------------|-------|-------|------------------------|--------|--------|
| Material No. | | | | M002 | M003 |
| Test Parameter | Unit | RL | Regulatory Requirement | Result | Result |
| Aluminium (Al) | mg/kg | 10 | 28,130 | - | < RL |
| Antimony (Sb) | mg/kg | 5 | 560 | - | < RL |
| Arsenic (As) | mg/kg | 5 | 47 | - | < RL |
| Barium (Ba) | mg/kg | 2.5 | 18,750 | - | < RL |
| Boron (B) | mg/kg | 10 | 15,000 | - | < RL |
| Cadmium (Cd) | mg/kg | 1 | 17 | - | < RL |
| Chromium III (Cr(III)) | mg/kg | 10 | 460 | - | < RL |
| Chromium VI (Cr(VI)) | mg/kg | 0.045 | 0.053 | - | < RL |
| Cobalt (Co) | mg/kg | 2.5 | 130 | - | < RL |
| Copper (Cu) | mg/kg | 2.5 | 7,700 | - | < RL |
| Lead (Pb) | mg/kg | 2.5 | 23 | - | < RL |
| Manganese (Mn) | mg/kg | 2.5 | 15,000 | - | < RL |
| Mercury (Hg) | mg/kg | 2.5 | 94 | - | < RL |
| Nickel (Ni) | mg/kg | 2.5 | 930 | - | < RL |
| Selenium (Se) | mg/kg | 10 | 460 | - | < RL |
| Strontium (Sr) | mg/kg | 2.5 | 56,000 | - | < RL |
| Tin (Sn) | mg/kg | 1.0 | 180,000 | - | < RL |
| Organic Tin [^] | mg/kg | 0.2 | 12 | - | - |
| Zinc (Zn) | mg/kg | 10 | 46,000 | - | < RL |
| Mass of trace amount | mg | -- | -- | <10 | - |

Abbreviation:

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- [^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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Remark:

- * Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019+A1:2021 / BS EN 71-3:2019+A1:2021 , cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.
- ** For any test portion containing grease, oil, wax or similar material, such materials would has been removed with isooctane by using Soxhlet extraction.
- **** The highlighted result was found to be more than the maximum permissible limit.
- ***** According to EN 71-3:2019+A1:2021, if the weight of a test portion of toy material is less than 10mg, the analysis of migration of certain elements would not be required. If the weight of a test portion of toy material is between 10mg and 100mg, the analytical results would be calculated as though 100mg of the test portion had been used.

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4. Phthalates content

Test Method: Ref. to CPSC-CH-C1001-09.4

Test Result:

| Test No. | | | | T001 | T002 | T003 |
|--|---------------------------|------|------|--------|--------|-------------|
| Material No. | | | | M002 | M003 | M004 + M005 |
| Test Parameter | CAS NO | Unit | RL | Result | Result | Result |
| Diethylhexyl phthalate (DEHP) | 117-81-7 | % | 0.01 | < RL | < RL | < RL |
| Dibutyl phthalate (DBP) | 84-74-2 | % | 0.01 | < RL | < RL | < RL |
| Benzylbutyl phthalate (BBP) | 85-68-7 | % | 0.01 | < RL | < RL | < RL |
| Diisobutyl phthalate (DIBP) | 84-69-5 | % | 0.01 | < RL | < RL | < RL |
| Diisononyl phthalate (DINP) | 28553-12-0, 68515-48-0 | % | 0.01 | < RL | < RL | < RL |
| Diisodecyl phthalate (DIDP) | 26761-40-0, 68515-49-1 | % | 0.01 | < RL | < RL | < RL |
| Di-n-octyl phthalate (DNOP) | 117-84-0 | % | 0.01 | < RL | < RL | < RL |
| Sum (DINP+ DIDP+ DNOP) | -- | % | 0.01 | <RL | <RL | <RL |
| Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52 | | | | Pass | Pass | Pass |

| Test No. | | | | T004 |
|--|---------------------------|------|------|-------------|
| Material No. | | | | M006 + M007 |
| Test Parameter | CAS NO | Unit | RL | Result |
| Diethylhexyl phthalate (DEHP) | 117-81-7 | % | 0.01 | < RL |
| Dibutyl phthalate (DBP) | 84-74-2 | % | 0.01 | < RL |
| Benzylbutyl phthalate (BBP) | 85-68-7 | % | 0.01 | < RL |
| Diisobutyl phthalate (DIBP) | 84-69-5 | % | 0.01 | < RL |
| Diisononyl phthalate (DINP) | 28553-12-0, 68515-48-0 | % | 0.01 | < RL |
| Diisodecyl phthalate (DIDP) | 26761-40-0, 68515-49-1 | % | 0.01 | < RL |
| Di-n-octyl phthalate (DNOP) | 117-84-0 | % | 0.01 | < RL |
| Sum (DINP+ DIDP+ DNOP) | -- | % | 0.01 | <RL |
| Conclusion: REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52 | | | | Pass |

Abbreviation: < = less than
 RL = Reporting Limit
 % = percentage

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Remark:

- Requirement of REACH regulation (EC) No. 1907/2006 and its amendment Annex XVII entries 51 and 52:

| Parameter | Unit | Maximum Permissible Limit |
|--|------|---|
| Plasticised materials in toys and childcare articles, or other articles# place on the market; | | |
| Diethylhexyl phthalate (DEHP) Dibutyl phthalate (DBP) Benzylbutyl phthalate (BBP) Diisobutyl phthalate (DIBP) | % | 0.1 (individually or sum of the four phthalates) Effective after 7 July 2020. |
| Plasticised materials in children's toy and childcare articles which can be placed in the mouth by children: | | |
| Di-n-octyl phthalate (DNOP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP) | % | 0.1 (sum of the three phthalates) |

Denote:

Examples of articles that are excluded from the restriction

- Articles exclusively for industrial / agricultural use / use in open air, provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin (i.e. Continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.)
 - Aircraft and motor vehicles (Directive 2007/46/EC) placed on the market before 7 January 2024, or articles for use exclusively in the maintenance or repair of them
 - Measuring devices for laboratory use;
 - Food contact material and articles within the scope of Regulation (EC) No 1935/2004 or Commission Regulation (EU) No 10/2011
 - Medical devices (Directive 90/385/EEC, 93/42/EEC or 98/79/EC)
 - Electrical and electronic equipment within the scope of Directive 2011/65/EU
 - Immediate packaging of medicinal products (Regulation (EC) No 726/2004, Directive 2001/82/EC or Directive 2001/83/EC)
- Single component with an amount below reporting limit was not considered by the calculation of the sum. In the case of all phthalates were not detected, the result is stated <RL.

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5.Total Cadmium Content

Test Method: Acid digestion, analyzed by AAS/ ICP-OES

Test result

| Test No. | Material No. | Test Parameter | Unit | RL | Test Result |
|----------|--------------|----------------|-------|----|-------------|
| T001 | M002 | Cadmium | mg/kg | 10 | < RL |
| T002 | M003 | Cadmium | mg/kg | 10 | < RL |
| T003 | M004 + M005 | Cadmium | mg/kg | 10 | < RL |
| T004 | M006 + M007 | Cadmium | mg/kg | 10 | < RL |

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram

Remark:

- * Requirements for Cadmium content according to Annex XVII Entry 23 of Regulation (EC) No 1907/2006 (REACH) and its amendments
- Mixtures and articles produced from plastic material < 0.01 % (100 mg/kg)
 - Coated / painted articles < 0.1 % (1000 mg/kg)
 - Jewellery components < 0.01 % (100 mg/kg)
 - Paints and varnishes (excluding the applicable exemptions) < 0.01 % (100 mg/kg)

Swiss requirements for cadmium content according to the Switzerland Chemikalien-Risikoreduktions-Verordnung- ChemRRV, 814.81

- Mixtures and articles produced from plastic material < 0.01 % (100 mg/kg)
- Articles / objects treated with paints / coating with cadmium is prohibited
- Paints and varnishes < 0.01 % (100 mg/kg)

Duty to communication, for SVHC according to Regulation (EC) No 1907/2006 (REACH) and Directive 2008/98/EC (Waste Framework Directive, WFD), if the concentration of Cadmium in an article is more than 0.1 %.

- ** The highlighted result was found to be more than the maximum permissible limit.

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6. Microbial Contamination

Test Method: Ref. European Pharmacopeia 11th edition, Chapter 2.6.12 & 2.6.13 2023
 Ref. British Pharmacopeia Volume IV, Appendix XVI B, Methods 1&2, 2023

| | |
|--|---------------|
| Test No.: | T001 |
| Material No. | M008 |
| | Result |
| Total Viable Aerobic Count | - |
| Total Aerobic Microbial Count (TAMC) | <10 CFU/g |
| Total Combined Yeasts and Molds Count (TYMC) | <10 CFU/g |
| Specified Micro-Organisms | - |
| Staphylococcus aureus | Absent in 1g |
| Pseudomonas aeruginosa | Absent in 1g |
| Salmonella | Absent in 10g |
| Escherichia coli | Absent in 1g |
| Bile-Salts Tolerant Gram-Negative Bacteria | Absent in 1g |
| Candida albicans | Absent in 1g |

Abbreviation: < denotes less than
 CFU/g denotes Colony Forming Unit per gram
 CFU/ml denotes Colony Forming Unit per milliliter
 Present means "Detected"; Absent means "Not Detected"

Remark:

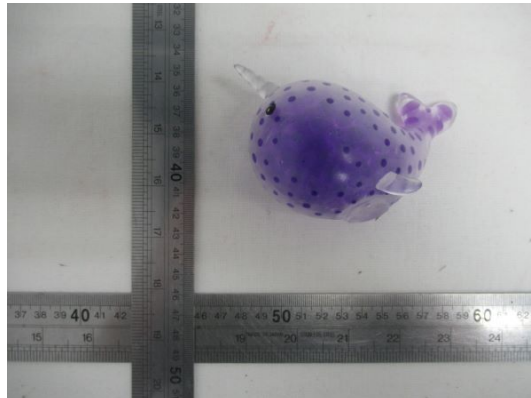
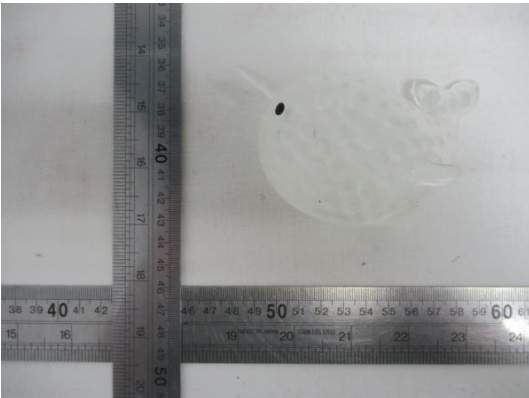
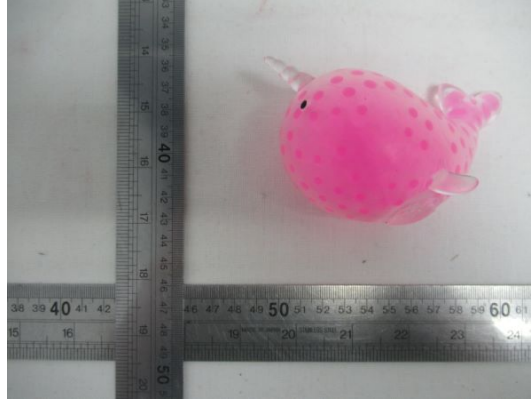
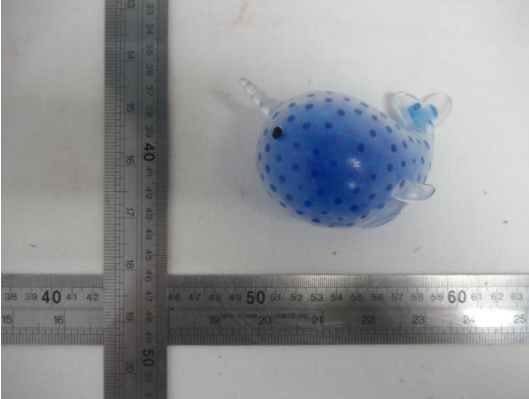
- *1 If the result is "< 10 CFU/g or CFU/ml", it means no microbial colony was detected on agar plate in 10 fold dilution.
- *2 According to the EC type approval protocol No.2 Microbiological safety of toys containing aqueous media (NB-TOYS/2021-053(Rev4), 10 Jan 2022)
 - The limit of Total aerobic microbial count is ≤1000 CFU/g or ml of product, Mould and yeast count and Bile-Salts Tolerant Gram-Negative Bacteria are ≤100 CFU/g or ml of product.
 - The following specified microorganisms must not be detectable in a product sample of 1ml or 1g
 Escherichia coli
 Staphylococcus aureus
 Pseudomonas aeruginosa
 Salmonella spp.
 Candida albicans
- *3 The result should be based on submitted sample only, the nature and processing of product should not be taken into account.

This test is sub-contracted to a laboratory which complies with the requirement of ISO/IEC 17025:2005.

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Sample Photos



- END -

