



TOYTESTINGLAB

Independent Testing for Your Products

A DIVISION OF RI ANALYTICAL

Executive Summary

Crazy Aaron's Puttyworld
Ms. Amanda Cunningham
201 Sabine Avenue, Suite 100
Narberth, PA 19072

Date Received: 01/10/2013

Date Reported: 01/25/2013

WO#: 1301-00872

Product: Crystal Clear Thinking Putty – Liquid Glass

ToyTestingLab has completed CPSIA, ASTM F963-11, EN-71 & REACH compliance testing of this product. The following regulations were applied:

- CPSIA requirements for Total Lead and Phthalates
- ASTM F963-11 Section 4.3.5 – Soluble Heavy Metals analysis
- Flammability Requirements of ASTM F963-11 Section 4.2, Annex A5
- EN 71 Part 3: Migration of Certain Elements*
- EU REACH Regulation 1907/2006 Annex XVII requirements for Total Cadmium and Phthalates
- EN 71-2:2011: Flammability

*Note: The limits which go into effect in 2013 were applied, however, the product was not analyzed for Chromium VI or Organic Tin.

ToyTestingLab has determined this product to Pass the requirements for the above mentioned sections of the regulations.

Certificate of analysis and all testing results are included in the attached report. Should you have any questions or concerns regarding the testing of this product please contact ToyTestingLab at 401-562-1323.



Benjamin Miranda
Technical Director



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CERTIFICATE OF ANALYSIS

Crazy Aaron's Puttyworld
201 Sabine Avenue, Suite 100
Narberth, PA 19072

Attn: Ms. Amanda Cunningham

Date Received: 1/10/13
Date Reported: 1/25/13
P.O. #:
Work Order #: 1301-00872

DESCRIPTION: CRYSTAL CLEAR THINKING PUTTY

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

References: 16 CFR, part 1303, ASTM E 1645, ASTM E 1613, CPSC-CH-E1001-08, CPSC-CH-E1002-08, CPSC-CH-C1001-09.3, CPSC-CH-E1003-09.1, ASTM F963-11 and EN-71. The specific methodologies are listed in the methods column of the Certificate of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

The Certificate of Analysis shall not be reproduced except in full, without written approval of ToyTestingLab. Results relate only to samples submitted to the laboratory for analysis.

Test results are not blank corrected.

CPSC Identification # 1097 and A2LA Number: 2815.01, 2815.02

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

We certify that the following results are true and accurate to the best of our knowledge:


Benjamin Miranda
Technical Director

enc: Chain of Custody

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CERTIFICATE OF ANALYSIS

Crazy Aaron's Puttyworld

Date Received: 1/10/13

Work Order #: 1301-00872

Sample # 001

SAMPLE DESCRIPTION: LIQUID GLASS CRYSTAL CLEAR PUTTY - 4" TIN

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|--------------------------------|----------------|------------|-------|--------|---------------|---------|
| METAL ANALYSIS | | | | | | |
| Cadmium | <4.9 | 4.9 | ppm | ICP | 1/21/13 | JRW |
| Lead | <20 | 20 | ppm | ICP | 1/21/13 | JRW |
| ASTM F963 Soluble Heavy Metals | | | | | | |
| Antimony | <6.00 | 6.00 | mg/kg | ICP | 1/21/13 | JRW |
| Arsenic | <3.0 | 3.0 | mg/kg | ICP | 1/21/13 | JRW |
| Barium | <0.60 | 0.60 | mg/kg | ICP | 1/21/13 | JRW |
| Cadmium | <0.30 | 0.30 | mg/kg | ICP | 1/21/13 | JRW |
| Chromium | <1.8 | 1.8 | mg/kg | ICP | 1/21/13 | JRW |
| Lead | <2.4 | 2.4 | mg/kg | ICP | 1/21/13 | JRW |
| Mercury | <0.060 | 0.060 | mg/kg | CVAA | 1/22/13 | JRW |
| Selenium | <12 | 12 | mg/kg | ICP | 1/21/13 | JRW |
| Toxic Element | | | | | | |
| Aluminum | <6.00 | 6.00 | mg/kg | ICP | 1/21/13 | JRW |
| Antimony | <6.00 | 6.00 | mg/kg | ICP | 1/21/13 | JRW |
| Arsenic | <3.0 | 3.0 | mg/kg | ICP | 1/21/13 | JRW |
| Boron | <6.00 | 6.00 | mg/kg | ICP | 1/21/13 | JRW |
| Barium | <0.60 | 0.60 | mg/kg | ICP | 1/21/13 | JRW |
| Cadmium | <0.30 | 0.30 | mg/kg | ICP | 1/21/13 | JRW |
| Chromium | <1.8 | 1.8 | mg/kg | ICP | 1/21/13 | JRW |
| Cobalt | <6.00 | 6.00 | mg/kg | ICP | 1/21/13 | JRW |
| Copper | <6.00 | 6.00 | mg/kg | ICP | 1/21/13 | JRW |
| Manganese | <6.00 | 6.00 | mg/kg | ICP | 1/21/13 | JRW |
| Lead | <2.4 | 2.4 | mg/kg | ICP | 1/21/13 | JRW |
| Mercury | <0.060 | 0.060 | mg/kg | CVAA | 1/22/13 | JRW |
| Nickel | <1.2 | 1.2 | mg/kg | ICP | 1/21/13 | JRW |
| Selenium | <12 | 12 | mg/kg | ICP | 1/21/13 | JRW |
| Strontium | <1.2 | 1.2 | mg/kg | ICP | 1/22/13 | JRW |
| Tin | <1.2 | 1.2 | mg/kg | ICP | 1/21/13 | JRW |
| Zinc | <1.2 | 1.2 | mg/kg | ICP | 1/21/13 | JRW |

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Note 1: Sample is in compliance with CPSIA lead limit of 100 ppm in substrate material effective August 14, 2011.

Note 2: Sample is in compliance with the EU REACH Regulation 1907/2006 Annex XVII Item 23 cadmium limit of 100 ppm.

Note 3: Sample is in compliance with the allowable concentrations of soluble metals in clay-like material according to Section 4.3.5 of ASTM F963-11. The limits are as follows:

| Soluble Metal | Allowable Concentration mg/kg |
|---------------|-------------------------------|
| Antimony | 60 |
| Arsenic | 25 |
| Barium | 250 |
| Cadmium | 50 |
| Chromium | 25 |
| Lead | 90 |
| Mercury | 25 |
| Selenium | 500 |

Note 4: Sample is in compliance with the following EN71 Part 3 limits of element migration in dry, brittle, powder-like or pliable toy materials which go into effect in 2013:

| Toxic Element | Allowable Concentration mg/kg |
|---------------|-------------------------------|
| Aluminum | 5625 |
| Antimony | 45 |
| Arsenic | 3.8 |
| Barium | 4500 |
| Boron | 1200 |
| Cadmium | 1.9 |
| Chromium | 37.5 |
| Cobalt | 10.5 |
| Copper | 622.5 |
| Lead | 13.5 |
| Manganese | 1200 |
| Mercury | 7.5 |
| Nickel | 75 |
| Selenium | 37.5 |
| Strontium | 4500 |
| Tin | 15000 |
| Zinc | 3750 |

Note 5: Sample was not analyzed for Chromium VI or Organic Tin.

The < sign denotes not detected.

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Date Received: 1/10/13

Work Order #: 1301-00872

Sample # 002

SAMPLE DESCRIPTION: GLOSS COATING OVER CMYK PRINT - STICKER

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|--------------------------------|----------------|------------|-------|--------|---------------|---------|
| METAL ANALYSIS | | | | | | |
| Cadmium | <4.0 | 4.0 | ppm | ICP | 1/22/13 | JRW |
| Lead | <16 | 16 | ppm | ICP | 1/22/13 | JRW |
| ASTM F963 Soluble Heavy Metals | | | | | | |
| Antimony | <23.5 | 23.5 | mg/kg | ICP | 1/21/13 | JRW |
| Arsenic | <12 | 12 | mg/kg | ICP | 1/21/13 | JRW |
| Barium | <2.4* | 2.4 | mg/kg | ICP | 1/21/13 | JRW |
| Cadmium | <1.2 | 1.2 | mg/kg | ICP | 1/21/13 | JRW |
| Chromium | <7.0 | 7.0 | mg/kg | ICP | 1/21/13 | JRW |
| Lead | <9.4 | 9.4 | mg/kg | ICP | 1/21/13 | JRW |
| Mercury | <0.24 | 0.24 | mg/kg | CVAA | 1/22/13 | JRW |
| Selenium | <47 | 47 | mg/kg | ICP | 1/21/13 | JRW |
| Toxic Element | | | | | | |
| Aluminum | 291 | 23.5 | mg/kg | ICP | 1/21/13 | JRW |
| Antimony | <23.5 | 23.5 | mg/kg | ICP | 1/21/13 | JRW |
| Arsenic | <12 | 12 | mg/kg | ICP | 1/21/13 | JRW |
| Boron | <23.5 | 23.5 | mg/kg | ICP | 1/21/13 | JRW |
| Barium | 2.8 | 2.4 | mg/kg | ICP | 1/21/13 | JRW |
| Cadmium | <1.2 | 1.2 | mg/kg | ICP | 1/21/13 | JRW |
| Chromium | <7.0 | 7.0 | mg/kg | ICP | 1/21/13 | JRW |
| Cobalt | <23.5 | 23.5 | mg/kg | ICP | 1/21/13 | JRW |
| Copper | <23.5 | 23.5 | mg/kg | ICP | 1/21/13 | JRW |
| Manganese | <23.5 | 23.5 | mg/kg | ICP | 1/21/13 | JRW |
| Lead | <9.4 | 9.4 | mg/kg | ICP | 1/21/13 | JRW |
| Mercury | <0.24 | 0.24 | mg/kg | CVAA | 1/22/13 | JRW |
| Nickel | <4.7 | 4.7 | mg/kg | ICP | 1/21/13 | JRW |
| Selenium | <47 | 47 | mg/kg | ICP | 1/21/13 | JRW |
| Strontium | 88 | 4.7 | mg/kg | ICP | 1/21/13 | JRW |
| Tin | 8.0 | 4.7 | mg/kg | ICP | 1/21/13 | JRW |
| Zinc | 32 | 4.7 | mg/kg | ICP | 1/21/13 | JRW |

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Date Received: 1/10/13

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Note 1: Sample is in compliance with CPSIA lead limit of 90 ppm in surface coating material effective August 14, 2009.

Note 2: Sample is in compliance with the EU REACH Regulation 1907/2006 Annex XVII Item 23 cadmium limit of 100 ppm.

Note 3: Sample is in compliance with the allowable concentrations of soluble metals according to Section 4.3.5 of ASTM F963-11. The limits are as follows:

| Soluble Metal | Allowable Concentration mg/kg |
|---------------|-------------------------------|
| Antimony | 60 |
| Arsenic | 25 |
| Barium | 250 |
| Cadmium | 50 |
| Chromium | 25 |
| Lead | 90 |
| Mercury | 25 |
| Selenium | 500 |

* Result was adjusted by subtracting the analytical correction factor prescribed by Section 8.3.4.3 of the method.

Note 4: Sample is in compliance with the following EN71 Part 3 limits of element migration in scraped off toy material which go into effect in 2013:

| Toxic Element | Allowable Concentration mg/kg |
|---------------|-------------------------------|
| Aluminum | 70000 |
| Antimony | 560 |
| Arsenic | 47 |
| Barium | 56000 |
| Boron | 15000 |
| Cadmium | 23 |
| Chromium | 460 |
| Cobalt | 130 |
| Copper | 7700 |
| Lead | 160 |
| Manganese | 15000 |
| Mercury | 94 |
| Nickel | 930 |
| Selenium | 460 |
| Strontium | 56000 |
| Tin | 180000 |
| Zinc | 46000 |

Note 5: Sample was not analyzed for Chromium VI or Organic Tin.

The < sign denotes not detected.

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Date Received: 1/10/13

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Sample # 003

SAMPLE DESCRIPTION: METAL STORAGE CONTAINER COMPONENTS - 4" TIN

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|----------------|----------------|------------|-------|--------|---------------|---------|
| METAL ANALYSIS | | | | | | |
| Cadmium | <4.5 | 4.5 | ppm | ICP | 1/22/13 | JRW |
| Lead | <18 | 18 | ppm | ICP | 1/22/13 | JRW |

Note 1: Sample is in compliance with CPSIA lead limit of 100 ppm in substrate material effective August 14, 2011.

Note 2: Sample is in compliance with the EU REACH Regulation 1907/2006 Annex XVII Item 23 cadmium limit of 100 ppm.

The < sign denotes not detected.

Sample # 004

SAMPLE DESCRIPTION: ALL COLORED PUTTIES COMPOSITE

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|-----------------------------------|----------------|------------|-------|--------|---------------|---------|
| PHTHALATE ANALYSIS | | | | | | |
| Bis(2-ethylhexyl)phthalate (DEHP) | <0.01 | 0.01 | % | GC/MS | 1/24/13 | TCL |
| Di-n-butyl phthalate (DBP) | <0.01 | 0.01 | % | GC/MS | 1/24/13 | TCL |
| Butylbenzyl phthalate (BBP) | <0.01 | 0.01 | % | GC/MS | 1/24/13 | TCL |
| Di-n-octyl phthalate (DNOP) | <0.01 | 0.01 | % | GC/MS | 1/24/13 | TCL |
| Diisononyl phthalate (DINP) | <0.02 | 0.02 | % | GC/MS | 1/24/13 | TCL |
| Diisodecyl phthalate (DIDP) | <0.02 | 0.02 | % | GC/MS | 1/24/13 | TCL |
| Di-n-hexyl phthalate (DnHP) | <0.01 | 0.01 | % | GC/MS | 1/24/13 | TCL |

* Sample analyzed is a 32 color composite from the Metallic Colors, Super Illusions, Primary Colors, Electric Colors, Glow in the Dark, Hyper Colors, Crystal Clear & Creatures product lines.

Note 1: All Phthalates tested are in compliance with CPSIA limits of 0.1% effective February 10, 2009.

Note 2: Sample is in compliance with the Phthalate requirements set forth in Annex XVII Items 51 & 52 of EU REACH Regulation (EC) No. 1907/2006 which requires <0.1 % by mass.

The < sign denotes not detected.

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Date Received: 1/10/13

Work Order #: 1301-00872

Sample # 005

SAMPLE DESCRIPTION: CRYSTAL CLEAR THINKING PUTTY

| PARAMETER | SAMPLE RESULTS | DET. LIMIT | UNITS | METHOD | DATE ANALYZED | ANALYST |
|--------------|-------------------|---------------|-------|-----------------|------------------|---------|
| Flammability | DNS | | | ASTM F963-11 A5 | 1/24/13 | BMM |
| Flammability | DNS | | | EN71 Part 2 | 1/24/13 | BMM |

Note 1: DNS = Does not sustain flame.

Note 2: Sample is in compliance with the burn rate limit of 0.1 in/s established by Section 4.2 and Annex A5 of ASTM F963-11.

Note 3: Sample meets the requirements of EN71 Part 2: Flammability, as it was not found to be a highly flammable solid.

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CERTIFICATE OF ANALYSIS

Client: Crazy Aaron's Puttyworld
Work Order No. 1301-00872
Date Received: 1/10/13

Approved by: _____

ToyTestingLab

Product: CRYSTAL CLEAR THINKING PUTTY



Independent Testing for Your Products
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Tracking Number:

Crystal Clear Thinking Putty

CHAIN OF CUSTODY RECORD

TOYTESTING
Independent Testing for Your Products
A DIVISION OF PERI ANALYTICAL

Mailing Address:
41 Illinois Avenue
Warwick, RI 02888
Tel: 401-562-1323
Fax: 401-738-1970

Product Information Required:
Date of Manufacture:
SKU or Item Number:
Tracking Number:

Sample Identification
Crystal Clear Thinking Putty

**** Please refer to quotation for specific list of testing requirements**

**** Please refer to quotation for specific list of testing requirements**

Project Information

| | | | | | | | | | |
|---------------------|------------------------------|--|------|--|----------------|------------------------------|--|--------|------|
| Company Name: | Crazy Aaron's Puttyworld | | | | Project Name: | Crystal Clear Thinking Putty | | | |
| Address: | 201 Sabine Avenue, Suite 100 | | | | P.O. Number: | | | | |
| City / State / Zip: | Narberth, PA 19072 | | | | Report To: | Amanda | | Phone: | Same |
| Telephone: | 866.578.2845 | | Fax: | | Email address: | Amanda@puttyworld.com | | | |
| Contact Person: | Ms. Amanda Cunningham | | | | | | | | |

| Date | | Time | Received By | Date | Time |
|------|------------|---------|-------------|----------------|---------------|
| x | Amarak C R | 1/10/13 | 9:38am | D: [Signature] | 1-10-13 11:00 |

| Turn-Around Time | |
|------------------|-------------------------------------|
| X | Normal EMAIL Report |
| | 5 Business days, Possible surcharge |
| | Rush (Business days) |

| | |
|------------------|--------------------------|
| Project Comments | Lab Use Only |
| | Workorder No: 1301-00872 |

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