

ARABA ACCREDITED ISDIRCINOSS TESTING LABORATORY AT-1500

**TEST REPORT** 

Test Report #	20H-005391	Date of Report Issue:	August 27, 2020
Date of Sample Received:	August 17, 2020	Pages:	Page 1 of 21
CLIENT INFORMATION:			
Company:	ITW Trans Tech		
Recipient:	Prasanth Bijjam		12001 •4470LINER®
Recipient Email:	pbijjam@itwids.com		ANDERER BU
SAMPLE INFORMATION:			20H-005391
Description:	Hardener BH		
Assortment:	-	Purchase Order Num	ber: -
SKU/style No.:	-	Toy Co./Agency:	-
Factory/Supplier/Vendor:	-	Country of Origin:	Germany
Country of Distribution:	Worldwide	Labeled Age Grade:	-
Quantity Submitted:	1 lot	Recommended Age C	Grade: -
Testing Period:	08/17/2020 – 08/21/2	020 Tested Age Grade:	-

## **OVERALL RESULT:**

**PASS** 

Refer to page 2 for test result summary and appropriate notes.

QIMA Testing (HK) Limited



Loska Yeung Lok Ka Assistant Manager, Chemical Laboratory

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### **TEST RESULTS SUMMARY:**

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Paint and Similar Surface Coatings
PASS	ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 8 Total Elements Screening in Paint and Surface Coatings
PASS	ASTM F2999-19 Adult Jewelry, Clause 5 & 7 Total Elements Screening in Paint and Surface Coatings
PASS	ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 5 Total Lead in Paint and Surface Coatings
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	Washington Revised Code Section 70.240.020, Cadmium in Paints and Surface Coatings of Children's Product <sup>#</sup>
PASS	The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Paints and Surface Coatings of Children's Jewelry and Childcare Articles
PASS	Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children's Jewelry
PASS	Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry
PASS	Minnesota Chapter 347-S.F. No. 2510, Total Cadmium Screening in Children's Jewelry
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)
PASS	Washington Revised Code Section 70.240.020, Phthalates in Children's Product
PASS	Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Elements Screening in Paints and Surface Coatings
PASS	Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Lead and Mercury in Paints and Surface Coatings
PASS	Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Paints and Surface Coatings
PASS	Mexican Environmental Health NOM-252-SSA1-2011, Total Elements Screening from Toys and School Supplies

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## **DETAILED RESULTS:**

## CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Paint and Similar Surface Coatings

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Soluble
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND					60
Total Arsenic (As)	ND					25
Total Barium (Ba)	130					1000
Total Cadmium (Cd)	ND					75
Total Chromium (Cr)	ND					60
Total Lead (Pb)	ND					90
Total Mercury (Hg)	ND					60
Total Selenium (Se)	ND					500
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Pb, Hg = 20ppm; Se = 50ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

## Remark:

The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the <u>QIMA decision rule</u>.



#### **DETAILED RESULTS:**

# ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 8 Total Elements Screening in Paint and Surface Coatings

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Soluble
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND					60
Total Arsenic (As)	ND					25
Total Barium (Ba)	130					1000
Total Cadmium (Cd)	ND					75
Total Chromium (Cr)	ND					60
Total Mercury (Hg)	ND					60
Total Selenium (Se)	ND					500
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Hg = 20 ppm; Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

## Remark:

The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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#### **DETAILED RESULTS:**

## ASTM F2999-19 Adult Jewelry, Clause 5 & 7 Total Elements Screening in Paint and Surface Coatings

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Soluble
Test Item	Result	Result	Result	Result	Result	Limit
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Total Antimony (Sb)	ND					60
Total Arsenic (As)	ND					25
Total Barium (Ba)	130					1000
Total Cadmium (Cd)	ND					75
Total Chromium (Cr)	ND					60
Total Lead (Pb)	ND					600*
Total Mercury (Hg)	ND					60
Total Selenium (Se)	ND					500
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Pb, Hg = 20 ppm; Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

\*Total limit

The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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### **DETAILED RESULTS:**

# ASTM F2923-20 Consumer Product Safety for Children's Jewelry, Clause 5 Total Lead in Paint and Surface Coatings

Test Method:	CPSC-CH-E-1003-09.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					90
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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### **DETAILED RESULTS:**

## CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings

Test Method:CPSC-CH-E-1003-09.1Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					90
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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#### **DETAILED RESULTS:**

## Washington Revised Code Section 70.240.020, Cadmium in Paints and Surface Coatings of Children's Product

Test Method:	CPSC-CH-E-1003-09.1 (Modified) <sup>#</sup>
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Cadmium (Cd)	ND					40
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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### **DETAILED RESULTS:**

# The Illinois Lead Poisoning Prevention Act (LPPA) (410 ILCS 45/6), Total Lead in Paints and Surface Coatings of Children's Jewelry and Childcare Articles

Test Method:CPSC-CH-E-1003-09.1Analytical Method:Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					40
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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#### **DETAILED RESULTS:**

## Connecticut Public Act 10-113 (Substituted House Bill 5314), Total Cadmium Content in Children's Jewelry

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Cadmium (Cd)	ND					75
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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#### **DETAILED RESULTS:**

### Maryland Chapter 578 (House Bill 145), Total Cadmium in Children's Jewelry

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Cadmium (Cd)	ND					75
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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#### **DETAILED RESULTS:**

## Minnesota Chapter 347-S.F. No. 2510, Total Cadmium Screening in Children's Jewelry

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Soluble
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Cadmium (Cd)	ND					75
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

### Remark:

The total cadmium screening results did not exceed the soluble cadmium limit, therefore, further soluble analyses were not conducted.

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#### **DETAILED RESULTS:**

## California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method:	CPSC-CH-C1001-09.4
Analytical Method:	Gas Chromatography with Mass Spectrometry

Specimen No.		1				
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND				1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND				1000
	Conclusion	PASS				

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 300 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

The specification is quoted from client's requirement.

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#### **DETAILED RESULTS:**

# 16 CFR 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method:	CPSC-CH-C1001-09.4
Analytical Method:	Gas Chromatography with Mass Spectrometry

Specimen N	0.	1				
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND				1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND				1000
Diisobutyl phthalate (DIBP)	84-69-5	ND				1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND				1000
	Conclusion	PASS				

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass) LT = Less than

ND = Not detected (Reporting Limit = 300 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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#### **DETAILED RESULTS:**

#### Washington Revised Code Section 70.240.020, Phthalates in Children's Product

Test Method:	CPSC-CH-C1001-09.4
Analytical Method:	Gas Chromatography with Mass Spectrometry

Specimen No	).	1				
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND				1000
Benzyl butyl phthalate (BBP)	85-68-7	ND				1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND				1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND				1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND				1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND				1000
	Sum	ND				1000
	Conclusion	PASS				

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 300 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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#### **DETAILED RESULTS:**

## Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Elements Screening in Paints and Surface Coatings

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Leachable
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND					1000
Total Arsenic (As)	ND					1000
Total Barium (Ba)	130					1000
Total Cadmium (Cd)	ND					1000
Total Lead (Pb)	ND					90*
Total Mercury (Hg)	ND					10*
Total Selenium (Se)	ND					1000
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Pb, Hg = 10 ppm; Sb, As, Ba, Cd, Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

\*Total limit

The results of total elements screening did not exceed the limits of leachable elements, therefore further analysis of leachable elements was not conducted.

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## **DETAILED RESULTS:**

# Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Lead and Mercury in Paints and Surface Coatings

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					90
Total Mercury (Hg)	ND					10
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 10 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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### **DETAILED RESULTS:**

# Canadian Surface Coating Materials Regulations SOR/2016-193, Total Lead and Mercury in Paints and Surface Coatings

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1					Total
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Lead (Pb)	ND					90
Total Mercury (Hg)	ND					10
Conclusion	PASS					

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 10 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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## **DETAILED RESULTS:**

## Mexican Environmental Health NOM-252-SSA1-2011, Total Elements Screening from Toys and School Supplies

Test Method:	ASTM F963-17 Clause 8.3.1
Analytical Method:	Inductively Coupled Plasma-Optical Emission Spectrometry

Toy Material except Modelling Clay

Specimen No.	1					Soluble
Test Item	Result	Result	Result	Result	Result	Limit
Total Antimony (Sb)	(ppm) ND	(ppm)	(ppm)	(ppm)	(ppm)	(ppm) 60
Total Arsenic (As)	ND					25
Total Barium (Ba)	130					1000
Total Cadmium (Cd)	ND					75
Total Chromium (Cr)	ND					60
Total Lead (Pb)	ND					90
Total Mercury (Hg)	ND					60
Total Selenium (Se)	ND					500
Conclusion	PASS					

#### Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Pb, Hg = 20 ppm; Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration

#### Remark:

The total heavy metals screening results do not exceed the soluble heavy metal limits, therefore, further soluble analyses were not conducted.

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### **SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Transparent ink	120301 HARDENER BH

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### **SAMPLE PHOTO:**



-End Report-

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