



**BUREAU  
VERITAS**

CONSUMER PRODUCTS SERVICES DIVISION

**TOY WONDERS, INC.**

**Technical Report:** (5208)099-0619  
Date Received: April 03, 2008

April 30, 2008  
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SAMUEL SU  
TOY WONDERS INC  
234 MOONACHIE ROAD  
MOONACHIE  
NEW JERSEY  
07074  
UNITED STATES

Sample Description: BIG WHEEL ROADER  
1. ) RED CITY TRUCK  
2. ) BLUE CITY TRUCK  
3. ) BLACK CITY TRUCK

Vendor: N/A  
Manufacturer: SUNNYSIDE LIMITED  
Buyer: N/A  
Labeled Age Grade: NOT PRESENT  
Appropriate Age Grade: OVER 3 YEARS OF AGE  
Client Specified Age Grade: NOT SPECIFIED  
Tested Age Grade: OVER 3 YEARS OF AGE  
UPC Code: 792674888885

Sample Size: 6  
Style No(s): SS 4103-4  
SKN/SKU No.: 4103/4  
PO No.: N/A  
Ref #: N/A  
Country of Origin: CHINA  
Assortment No.: N/A

**EXECUTIVE SUMMARY:**

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

- The lead content requirements of 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" (CPSC and CPSA regulations).
- The soluble heavy metals content requirements of ASTM F963-07 E1, "Standard consumer safety specification on toy safety," Section 4.3.5.2.



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**EXECUTIVE SUMMARY:**

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

- The BBP, DBP and DEHP content requirements of the California Bill No. 1108, CHAPTER 672, an act to add Chapter 11 (commencing with Section 108935) to Part 3 of Division 104 of the Health and Safety Code.

Note: The received sample(s) contained scrapable surface coating material(s) of less than 10 milligrams by weight on one single sample, therefore such coating material(s) was not subject to the soluble heavy metals analysis of ASTM F963-07 E1, "Standard consumer safety specification on toy safety", Section 4.3.5.2, as specified in Section 8.3.3.1(2).

BUREAU VERITAS HONG KONG LIMITED

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BUREAU VERITAS HONG KONG LIMITED

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Manager  
Heavy Metals Analysis Section



**RESULTS:**

TOTAL LEAD CONTENT (16 CFR 1303, "Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint")

Element:				Lead	
Requirement: Maximum allowable limit (0.06% by weight)				600 mg/kg	
Sample Description				Result (mg/kg)	Conclusion
	Color / Component	Location	Style		
(A)	Surface Coating lacquer/ metallic blue shiny silver	car body wheels, headlights and engine	2 all	LT 22	Pass
(B)	bright red bright black	car body car body	1 3	LT 27	Pass
(C)	dull red/ yellow/ white/ black	patterns and words on car body	all	LT 15	Pass

LT = Less than

\* = Average of duplicate analyses

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



**RESULTS:**

SOLUBLE HEAVY METALS CONTENT (ASTM F963-07 E1, Section 4.3.5.2)

Test Method: Soluble heavy metals content analysis was determined by Inductively Coupled Plasma Spectrometry.

	Color / Component	Location	Style
A.	Surface Coating dull red/ white and bright red underlying	patterns on car body	all
B.	shiny silver	wheels, headlights and engine	all
C.	bright red	car body	1
D.	lacquer metallic blue	car body	2
E.	bright black	car body	3

Element	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of trace Amount	
Maximum Limit (mg/kg)	25	1000	75	60	60	90	60	500		
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%		
Sample	Result (mg/kg)								(gram)	Conclusion
A	LT 2	85	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0203	Pass
B	LT 2	3	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0214	Pass
C	LT 2	410	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0529	Pass
D	LT 2	12	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0402	Pass
E	LT 2	2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0701	Pass

LT = Less Than  
 CR = Adjusted analytical result  
 mg/kg = milligrams per kilogram (ppm = parts per million)  
 \* = Average of duplicate analyses

As = Arsenic, Ba = Barium, Cd = Cadmium,  
 Cr = Chromium, Hg = Mercury, Pb = Lead,  
 Sb = Antimony, Se = Selenium



**RESULTS:**

**PHthalATES CONTENT IN TOYS AND CHILDCARE ARTICLES (California Bill No. 1108, Product Safety (BBP / DBP / DEHP CONTENT))**

Sample Identity	Test Component	Location	Style
A.	black PVC	tyres of car	1-3
B.	white plastic	wheel of car	1-3
	grey plastic	body of car	1-3
	black plastic	steering wheel, gear shift stick	1-3
C.	dull black plastic	base of body	1-3
	clear yellow plastic	light of car	1-3
	dull pitch black plastic	roof panel	2
D.	light grey plastic	engine of car	1-3
	bronze black plastic	wheel at the back of car	1-3
	white plastic	engine of car	1-3

Test Parameter	A.	B.	C.	D.	Limit (%)
BBP	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1
DBP	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1
DEHP	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.1
Conclusion	Pass	Pass	Pass	Pass	

*Detection Limit :*

BBP = Butyl benzyl phthalate (0.01%)  
 DBP = Dibutyl phthalate (0.01%)  
 DEHP = Di(2-ethylhexyl) phthalate (0.01%)

*Results reported in percentage*

LT = Less than  
 ND = None detected