



**BUREAU
VERITAS**

CONSUMER PRODUCTS SERVICES DIVISION

MOOSE FAR EAST LTD

Technical Report: (5208)003-1112

January 11, 2008

Date Received: January 03, 2008

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ANITA CHOY
MOOSE FAR EAST LTD
SUITE 720, 7/F, CHINACHEM GOLDEN PLAZA
77 MODY ROAD
TSIM SHA TSUI EAST
KOWLOON
HONG KONG

Sample Description: PVA BEADS IN 34 COLORS

- 1.) SOLID COLOR - WARM RED
- 2.) SOLID COLOR - PINK
- 3.) SOLID COLOR - ORANGE
- 4.) SOLID COLOR - SKIN
- 5.) SOLID COLOR - YELLOW
- 6.) SOLID COLOR - GREEN
- 7.) SOLID COLOR - PROCESS BLUE
- 8.) SOLID COLOR - LIGHT BLUE
- 9.) SOLID COLOR - PURPLE
- 10.) SOLID COLOR - WHITE
- 11.) SOLID COLOR - BLACK
- 12.) SOLID COLOR - BROWN
- 13.) SOLID COLOR - DARK GREY
- 14.) SOLID COLOR - LIGHT GREY
- 15.) CRYSTAL COLOR - RED
- 16.) CRYSTAL COLOR - YELLOW
- 17.) CRYSTAL COLOR - GREEN
- 18.) CRYSTAL COLOR - PROCESS BLUE
- 19.) CRYSTAL COLOR - PURPLE
- 20.) GID - RED
- 21.) GID - ORANGE
- 22.) GID - YELLOW
- 23.) GID - GREEN
- 24.) GID - BLUE
- 25.) GLITTER - PINK
- 26.) GLITTER - ORANGE
- 27.) GLITTER - GREEN
- 28.) GLITTER - BLUE
- 29.) GLITTER - PURPLE
- 30.) METALLIC - RED
- 31.) METALLIC - ORANGE
- 32.) METALLIC - GREEN
- 33.) METALLIC - BLUE
- 34.) METALLIC - PURPLE

| | | | |
|-----------------------------|---------------------|--------------------|----------------|
| Vendor: | N/A | Sample Size: | 34 LOT(S) |
| Manufacturer: | N/A | Style No(s): | N/A |
| Buyer: | N/A | SKN/SKU No.: | N/A |
| Labeled Age Grade: | NOT PRESENT | PO No.: | N/A |
| Appropriate Age Grade: | NOT REQUESTED | Ref #: | N/A |
| Client Specified Age Grade: | 3+ | Country of Origin: | NO INFORMATION |
| Grade: | | | |
| Tested Age Grade: | OVER 3 YEARS OF AGE | Assortment No.: | N/A |
| UPC Code: | N/A | | |



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EXECUTIVE SUMMARY:

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

- The monomer requirements of the European Standard, "Safety of toys: Organic chemical compounds-Requirement", EN 71-Part 9:2005.
- The plasticisers requirements of the European Standard, "Safety of toys: Organic chemical compounds-Requirement", EN 71-Part 9:2005.
- The solvent migration requirements of the European Standard, "Safety of toys: Organic chemical compounds-Requirement", EN 71-Part 9:2005.

BUREAU VERITAS HONG KONG LIMITED

Chan Pak Ho, Pako
Supervisor
Chemical Analysis Department

PC/fai



RESULTS:

MONOMERS CONTENT (EN 71-9:2005)

Test method: EN 71-10 & EN 71-11

- Test component:
- A. red on bead of style# 1
 pink on bead of style# 2
 orange on bead of style# 3
 light orange on bead of style# 4
 yellow on bead of style# 5
 light green on bead of style# 6
 blue on bead of style# 7
 light blue on bead of style# 8
 purple on bead of style# 9
 white on bead of style# 10
 black on bead of style# 11
 brown on bead of style# 12
 dark grey on bead of style# 13
 light grey plastic on bead of style# 14
 - B. clear red on bead of style#15
 clear yellow on bead of style# 16
 clear yellowish green on bead of style# 17
 clear blue on bead of style# 18
 clear purple on bead of style# 19
 clear pink white glitter on bead of style# 25
 clear orange with glitter on bead of style# 26
 clear light green with glitter on bead of style# 27
 clear turquoise with glitter on bead of style# 28
 clear purple with glitter plastic on bead of style# 29
 - C. translucent red on bead of style# 20
 translucent orange on bead of style# 21
 translucent yellow on bead of style# 22
 translucent pale green on bead of style# 23
 translucent blue plastic on bead of style# 24
 - D. metallic red on bead of style# 30
 metallic orange on bead of style# 31
 metallic green on bead of style# 32
 metallic turquoise on bead of style# 33
 metallic purple plastic on bead of style# 34

| Test Parameter | A. | B. | C. | D. | Limit |
|----------------|---------|---------|---------|---------|-----------|
| Acrylamide | LT 0.02 | LT 0.02 | LT 0.02 | LT 0.02 | 0.02 mg/L |
| Bisphenol A | LT 0.01 | LT 0.01 | LT 0.01 | LT 0.01 | 0.1 mg/L |
| Phenol | LT 1 | LT 1 | LT 1 | LT 1 | 15 mg/L |
| Styrene | LT 0.1 | LT 0.1 | LT 0.1 | LT 0.1 | 0.75 mg/L |
| Formaldehyde | LT 0.1 | LT 0.1 | LT 0.1 | LT 0.1 | 2.5 mg/L |
| Conclusion | Pass | Pass | Pass | Pass | |

mg/L = milligram per litre



RESULTS:

SOLVENT MIGRATION CONTENT (EN 71-9:2005)

Test method: EN 71-10 & EN 71-11

- Test component:
- A. red on bead of style# 1
pink on bead of style# 2
orange on bead of style# 3
light orange on bead of style# 4
yellow on bead of style# 5
light green on bead of style# 6
blue on bead of style# 7
light blue on bead of style# 8
purple on bead of style# 9
white on bead of style# 10
black on bead of style# 11
brown on bead of style# 12
dark grey on bead of style# 13
light grey plastic on bead of style# 14
 - B. clear red on bead of style# 15
clear yellow on bead of style# 16
clear yellowish green on bead of style# 17
clear blue on bead of style# 18
clear purple on bead of style# 19
clear pink white glitter on bead of style# 25
clear orange with glitter on bead of style# 26
clear light green with glitter on bead of style# 27
clear turquoise with glitter on bead of style# 28
clear purple with glitter plastic on bead of style# 29
 - C. translucent red on bead of style# 20
translucent orange on bead of style# 21
translucent yellow on bead of style# 22
translucent pale green on bead of style# 23
translucent blue plastic on bead of style# 24
 - D. metallic red on bead of style# 30
metallic orange on bead of style# 31
metallic green on bead of style# 32
metallic turquoise on bead of style# 33
metallic purple plastic on bead of style# 34



RESULTS:

SOLVENT MIGRATION CONTENT (EN 71-9:2005)

| Test Parameter | A. | B. | C. | D. | Limit |
|---|---------|---------|---------|---------|-----------|
| Trichloroethylene | LT 1 | LT 1 | LT 1 | LT 1 | 20 ug/L |
| Dichloromethane | LT 0.05 | LT 0.05 | LT 0.05 | LT 0.05 | 0.06 mg/L |
| Sum of 2-Methoxyethyl acetate, 2-Ethoxyethanol, 2-Ethoxyethyl acetate & Bis(2-methoxyethyl) ether | LT 0.4 | LT 0.4 | LT 0.4 | LT 0.4 | 0.5 mg/L |
| Methanol | LT 0.5 | LT 0.5 | LT 0.5 | LT 0.5 | 5 mg/L |
| Nitrobenzene | LT 0.01 | LT 0.01 | LT 0.01 | LT 0.01 | 0.02 mg/L |
| Cyclohexanone | LT 3 | LT 3 | LT 3 | LT 3 | 46 mg/L |
| 3,5,5-Trimethyl-2-cyclohexene-1-one | LT 0.5 | LT 0.5 | LT 0.5 | LT 0.5 | 3 mg/L |
| Toluene | LT 1 | LT 1 | LT 1 | LT 1 | 2 mg/L |
| Ethylbenzene | LT 0.5 | LT 0.5 | LT 0.5 | LT 0.5 | 1 mg/L |
| Xylene (all isomers) | LT 1 | LT 1 | LT 1 | LT 1 | 2mg/L |
| Conclusion | Pass | Pass | Pass | Pass | |

mg/L = milligram per liter

ug/L = microgram per liter

Note : 2-Methoxypropyl acetate was not evaluated.



RESULTS:

PLASTICIZER CONTENT (EN 71-9:2005)

Test method: EN 71-10 & EN 71-11

- Test component:
- A. red on bead of style# 1
 pink on bead of style# 2
 orange on bead of style# 3
 light orange on bead of style# 4
 yellow on bead of style# 5
 light green on bead of style# 6
 blue on bead of style# 7
 light blue on bead of style# 8
 purple on bead of style# 9
 white on bead of style# 10
 black on bead of style# 11
 brown on bead of style# 12
 dark grey on bead of style# 13
 light grey plastic on bead of style# 14
 - B. clear red on bead of style#15
 clear yellow on bead of style# 16
 clear yellowish green on bead of style# 17
 clear blue on bead of style# 18
 clear purple on bead of style# 19
 clear pink white glitter on bead of style# 25
 clear orange with glitter on bead of style# 26
 clear light green with glitter on bead of style# 27
 clear turquoise with glitter on bead of style# 28
 clear purple with glitter plastic on bead of style# 29
 - C. translucent red on bead of style# 20
 translucent orange on bead of style# 21
 translucent yellow on bead of style# 22
 translucent pale green on bead of style# 23
 translucent blue plastic on bead of style# 24
 - D. metallic red on bead of style# 30
 metallic orange on bead of style# 31
 metallic green on bead of style# 32
 metallic turquoise on bead of style# 33
 metallic purple plastic on bead of style# 34

| Test Parameter | A. | B. | C. | D. | Limit |
|------------------------|---------|---------|---------|---------|-----------|
| Triphenyl phosphate | LT 0.01 | LT 0.01 | LT 0.01 | LT 0.01 | 0.03 mg/L |
| Tri-o-cresyl phosphate | LT 0.01 | LT 0.01 | LT 0.01 | LT 0.01 | 0.03 mg/L |
| Tri-m-cresyl phosphate | LT 0.01 | LT 0.01 | LT 0.01 | LT 0.01 | 0.03 mg/L |
| Tri-p-cresyl phosphate | LT 0.01 | LT 0.01 | LT 0.01 | LT 0.01 | 0.03 mg/L |
| Conclusion | Pass | Pass | Pass | Pass | |

mg/L = milligram per litre

RESULTS:



Sample Number
(5208)003-1112



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