



LABORATORY REPORT

Dischem International, Inc.
Attn: Mr. Raj Lakhia
4252 Strausser Street NW
North Canton, OH 44720

Date Received: 04/25/2018
Date Reported: 05/08/2018
P.O. Number:

Work Order #: 1804-08545

Project Name: ASSORTED INKS

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) has/have been analyzed by our subcontracted laboratory, STC (Shanghai) Company Limited.

References: The specific methodologies and/or technologies are listed in the attached report.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order. This report shall not be reproduced, except in its entirety, without the prior written consent of TTL Laboratories.

CPSC-Accepted Testing Laboratory - Identification Number: 1097
ISO/IEC 17025 accreditation issued by A2LA - Certificates 2815.01 & 2815.02

We certify that the following results are true and accurate to the best of our knowledge. Should you have questions or need further assistance, please contact us at 401-562-1360.

Approved by:

Benjamin Miranda
Technical Director

LABORATORY REPORT

Dischem International, Inc.

Work Order #: 1804-08545

Project Name: ASSORTED INKS

Sample Number: 001
Sample Description: ASSORTED INKS

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Compliance Testing	*				5/8/2018	*SC

* Refer to the attached report furnished by STC (Shanghai) Company Limited.

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No. : SP18040326

Applicant : TTL Laboratories
41 Illinois Avenue Warwick, RI 02888

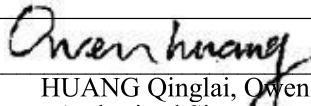
Attn: Philip Kalf

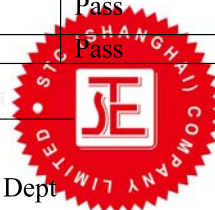
Description of Samples : One (1) group of submitted samples said to be:
ASSORTED INKS

Date Samples Received : 2018-04-26

Date Tested : 2018-04-26 to 2018-05-07

Requirements	Conclusion
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-17 - heavy metal test	Pass
2. US Consumer Product Safety Improvement Act - Total Lead content in paint and surface coating in accordance with Sec. 101 (f) and 16 CFR 1303. - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
3. The Total Lead content requirements according to the California Proposition 65	Pass
4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content requirements according to the California Proposition 65.	Pass
5. Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 and SOR/2016-302 under Canada Consumer Product Safety Act - Toxic element analysis in surface coating	Pass
6. Phthalates Regulations SOR/2016-188 under Canada Consumer Product Safety Act - Phthalates content	Pass
7. Surface Coating Materials Regulations SOR/2016-193	Pass
8. Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273 and Amending Regulations SOR/2016-171 - Total lead content in mouth-contact articles	Pass
9. European Standard for Safety of Toys - EN71-3:2013+A2:2017, migration of certain elements	Pass
10. Phthalates content -Annex XVII Item 51 & 52 of the REACH Regulation (EC) No. 1907/2006 and Commission Regulation (EC)No.552/2009 & (EU) 2015/326	Pass
11. Total cadmium content-Annex XVII Item 23 of the REACH Regulation (EC) No. 1907/2006 and Commission Regulation (EC)No.552/2009 & (EU) No 494/2011 & (EU) No 835/2012 & (EU) 2016/217	Pass
12. Australian/ New Zealand Standard for Safety of Toys - AS/ NZS ISO 8124-3:2012+A1:2016, migration of certain elements	Pass
13. GB 6675.4-2014, migration of certain elements	Pass


HUANG Qinglai, Owen
Authorized Signatory
Toys and Children's Products Dept
For and on behalf of
STC (Shanghai) Company Limited



STC (Shanghai) Company Limited

130 Huashen Road, Waigaoqiao Pilot Free Trade Zone, Shanghai, China. Zip Code: 200131

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Item No.	Component Description
Paint materials:	
<u>1</u>	(2112)Ink: fuchsia
<u>2</u>	(2422)Ink: red
<u>3</u>	(PY-201)Ink: wine red
<u>4</u>	(6011)Ink: royal blue
<u>5</u>	(6023)Ink: black
<u>6</u>	(PY-601)Ink: dark purple
<u>7</u>	(PY-401)Ink: yellow
<u>8</u>	(3004)Ink: deep green
<u>9</u>	(8008)Ink: golden
<u>10</u>	(9008)Ink: pearl white
<u>11</u>	(8115)Ink: purple
<u>12</u>	(8007)Ink: purple
<u>13</u>	(FL-201)Ink: orange red
<u>14</u>	(FL-301)Ink: green
<u>15</u>	(FL-401)Ink: yellow
<u>16</u>	(FL-601)Ink: royal blue
<u>17</u>	(FL-801)Ink: rose red
<u>18</u>	(FL-901)Ink: orange
<u>19</u>	(2007)Ink: red brown
<u>20</u>	(3007)Ink: deep green
<u>21</u>	(4007)Ink: yellow
<u>22</u>	(5007)Ink: white
<u>23</u>	(5009)Ink: white
<u>24</u>	(7003)Ink: black
<u>25</u>	(7007)Ink: black
<u>26</u>	(9007)Ink: orange
<u>27</u>	(6007)Ink: dark purple
<u>28</u>	(8003)Ink: golden
<u>29</u>	(DC-60)Ink: transparent yellow

Test Results:

1.ASTM Standard Consumer Safety Specification for Toy Safety F 963-17

1.1 Heavy metal test

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer & Inductively Coupled Plasma Mass Spectrometry

4.3.5.1 Paint and similar surface-coating

Total lead analysis

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Test Results:

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1+2+3</u>	<10ppm	90ppm
<u>4+5+6</u>	<10ppm	90ppm
<u>7+8+9</u>	<10ppm	90ppm
<u>10+11+12</u>	<10ppm	90ppm
<u>13+14+15</u>	<10ppm	90ppm
<u>16+17+18</u>	<10ppm	90ppm
<u>19+20+21</u>	<10ppm	90ppm
<u>22+23+24</u>	<10ppm	90ppm
<u>25+26+27</u>	<10ppm	90ppm
<u>28+29</u>	<10ppm	90ppm

Soluble metals test

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Results:

	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>29</u>	<u>Limit</u>			
Soluble lead.....	<5ppm	90ppm			
Soluble cadmium.....	<5ppm	75ppm			
Soluble chromium.....	<5ppm	60ppm			
Soluble barium.....	<5ppm	1000ppm			
Soluble antimony.....	<5ppm	60ppm			
Soluble arsenic.....	<2ppm	25ppm			
Soluble mercury.....	<5ppm	60ppm			
Soluble selenium.....	<5ppm	500ppm			

2. US Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total Lead content in paint and surface coating

Ref.: CPSIA Sec 101(f) and 16 CFR 1303

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

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Test Results:

Sample	Result	Limit
1+2+3	<10ppm	90ppm
4+5+6	<10ppm	90ppm
7+8+9	<10ppm	90ppm
10+11+12	<10ppm	90ppm
13+14+15	<10ppm	90ppm
16+17+18	<10ppm	90ppm
19+20+21	<10ppm	90ppm
22+23+24	<10ppm	90ppm
25+26+27	<10ppm	90ppm
28+29	<10ppm	90ppm

Note: < denotes less than.

2.2 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR 1307

Determined by: Gas Chromatography with Mass Selective Detector

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		1+2+3	4+5+6	7+8+9	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		10+11+12	13+14+15	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

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Test Results:

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		16	17	18	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	542	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		19+20+21	22+23+24	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		25+26+27	28+29	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Note: < denotes less than.

3. The Total Lead Content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Sample	Result	Limit
1+2+3	<10ppm	90ppm
4+5+6	<10ppm	90ppm
7+8+9	<10ppm	90ppm
10+11+12	<10ppm	90ppm
13+14+15	<10ppm	90ppm
16+17+18	<10ppm	90ppm
19+20+21	<10ppm	90ppm
22+23+24	<10ppm	90ppm
25+26+27	<10ppm	90ppm
28+29	<10ppm	90ppm

Note: < denotes less than.

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Test Results:

4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

	<u>1+2+3</u>	<u>4+5+6</u>	<u>7+8+9</u>	<u>10+11+12</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
	<u>13+14+15</u>	<u>16</u>	<u>17</u>	<u>18</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	542ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm
	<u>19+20+21</u>	<u>22+23+24</u>	<u>25+26+27</u>	<u>28+29</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

5. Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195 and SOR/2016-302 under Canada Consumer Product Safety Act

5.1 Toxic elements analysis

Ref.: Toys Regulations SOR/2011-17 Section 23 and and Amending Regulations SOR/2016-195 Section 3.

Determined by: Inductively Coupled Plasma Optical Emission Spectrometer

Test Item	Result				Limit
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Total lead	<10mg/kg	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble antimony	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble arsenic	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%

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Test Results:

Test Item	Result				Limit
	5	6	7	8	
Total lead	<10mg/kg	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble antimony	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble arsenic	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%

Test Item	Result				Limit
	9	10	11	12	
Total lead	<10mg/kg	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble antimony	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble arsenic	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%

Test Item	Result				Limit
	13	14	15	16	
Total lead	<10mg/kg	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble antimony	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble arsenic	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%

Test Item	Result				Limit
	17	18	19	20	
Total lead	<10mg/kg	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble antimony	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble arsenic	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%

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Test Results:

Test Item	Result				Limit
	21	22	23	24	
Total lead	<10mg/kg	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble antimony	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble arsenic	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%

Test Item	Result				Limit
	25	26	27	28	
Total lead	<10mg/kg	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble antimony	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble arsenic	<0.001%	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium	<0.001%	<0.001%	<0.001%	<0.001%	0.1%

Test Item	Result	Limit
	29	
Total lead	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	0.1%
Soluble barium	<0.001%	0.1%
Soluble antimony	<0.001%	0.1%
Soluble arsenic	<0.001%	0.1%
Soluble selenium	<0.001%	0.1%

6. Phthalates content

Ref.: Phthalates Regulation SOR/2016-188.

Determined by: Gas Chromatography Mass Spectrometer

A. For toys and child care articles

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		1+2+3	4+5+6	7+8+9	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		10+11+12	13+14+15	16	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

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Test Results:

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		17	18	19+20+21	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	542	<100	1000

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		22+23+24	25+26+27	28+29	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

B. For toys and child care articles, which can be placed in the mouth of a child under four years of age

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		1+2+3	4+5+6	7+8+9	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		10+11+12	13+14+15	16	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		17	18	19+20+21	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		22+23+24	25+26+27	28+29	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

7. Surface Coating Materials

Ref.: Surface Coating Materials Regulations SOR/2016-193.

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Test Item	Result(mg/kg)								Limit(mg/kg)
	1	2	3	4	5	6	7	8	
Total lead	<10	<10	<10	<10	<10	<10	<10	<10	90
Total mercury	<5	<5	<5	<5	<5	<5	<5	<5	10

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Test Results:

Test Item	Result(mg/kg)								Limit(mg/kg)
	9	10	11	12	13	14	15	16	
Total lead	<10	<10	<10	<10	<10	<10	<10	<10	90
Total mercury	<5	<5	<5	<5	<5	<5	<5	<5	10

Test Item	Result(mg/kg)								Limit(mg/kg)
	17	18	19	20	21	22	23	24	
Total lead	<10	<10	<10	<10	<10	<10	<10	<10	90
Total mercury	<5	<5	<5	<5	<5	<5	<5	<5	10

Test Item	Result(mg/kg)					Limit(mg/kg)
	25	26	27	28	29	
Total lead	<10	<10	<10	<10	<10	90
Total mercury	<5	<5	<5	<5	<5	10

8. Total lead content in mouth-contact articles

Ref.: Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273 and Amending Regulations SOR/2016-171.

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Test Item	Result(mg/kg)						Limit(mg/kg)
	1+2+3	4+5+6	7+8+9	10+11+12	13+14+15	16+17+18	
Total lead	<10	<10	<10	<10	<10	<10	90

Test Item	Result(mg/kg)				Limit(mg/kg)
	19+20+21	22+23+24	25+26+27	28+29	
Total lead	<10	<10	<10	<10	90

Note: < denotes less than.

9. European Standard for Safety of Toys

9.1 EN71-3:2013+A2:2017: Migration of certain elements

Determined by: Inductively Coupled Plasma Mass Spectrometry

Category III: Scraped-off toy material

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Test Results:

Element	Result (mg/kg)										Requirement (mg/kg)
	Sample ID										
	1	2	3	4	5	6	7	8	9	10	Category III
Aluminium	<5	74	7	<5	6	7	7	<5	8	6	70000
Arsenic	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	47
Boron	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Barium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	18750
Cadmium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	17
Cobalt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	130
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Chromium(VI)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7700
Mercury	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	94
Manganese	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Nickel	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	930
Lead	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	160
Antimony	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	560
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12
Strontium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	56000
Zinc	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	46000

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Test Results:

Element	Result (mg/kg)										Requirement (mg/kg)
	Sample ID										
	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	Category III
Aluminium	13	27	<5	7	6	7	<5	6	10	8	70000
Arsenic	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	47
Boron	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Barium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	18750
Cadmium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	17
Cobalt	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	130
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Chromium(VI)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7700
Mercury	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	94
Manganese	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Nickel	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	930
Lead	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	160
Antimony	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	560
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	12
Strontium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	56000
Zinc	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	46000

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Test Results:

Element	Result (mg/kg)									Requirement (mg/kg)
	Sample ID									
	21	22	23	24	25	26	27	28	29	Category III
Aluminium	7	29	66	8	6	<5	<5	7	7	70000
Arsenic	<2	<2	<2	<2	<2	<2	<2	<2	<2	47
Boron	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Barium	<5	<5	<5	<5	<5	<5	<5	<5	<5	18750
Cadmium	<5	<5	<5	<5	<5	<5	<5	<5	<5	17
Cobalt	<5	<5	<5	<5	<5	<5	<5	<5	<5	130
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Chromium(VI)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2
Copper	<5	<5	<5	<5	<5	<5	<5	<5	<5	7700
Mercury	<5	<5	<5	<5	<5	<5	<5	<5	<5	94
Manganese	<5	<5	<5	<5	<5	<5	<5	<5	<5	15000
Nickel	<5	<5	<5	<5	<5	<5	<5	<5	<5	930
Lead	<5	<5	<5	<5	<5	<5	<5	<5	<5	160
Antimony	<5	<5	<5	<5	<5	<5	<5	<5	<5	560
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	460
Tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	<5	<5	12
Strontium	<5	<5	<5	<5	<5	<5	<5	<5	<5	56000
Zinc	<5	<5	<5	<5	<5	<5	<5	<5	<5	46000

Remark : mg/kg = milligrams per kilogram
<=Less than

The Chromium (III) and Chromium (VI) was reported as Chromium content. Whenever the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed.

The Organic tin was reported as Tin content unless specified.

10. Phthalate content

Ref.: Annex XVII item 51&52 of the REACH Regulation and Commission Regulation (EC)No.552/2009 & (EU) 2015/326

Determined by: Gas Chromatography-Mass Spectrometry

A. For toys and childcare articles

Test Item	CAS No.	Result			Limit
		1+2+3	4+5+6	7+8+9	
Dibutyl phthalate(DBP)	84-74-2	<0.005%	<0.005%	<0.005%	<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%	<0.005%	<0.005%	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<0.005%	<0.005%	<0.005%	

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Test Results:

Test Item	CAS No.	Result			Limit
		10+11+12	13+14+15	16	
Dibutyl phthalate(DBP)	84-74-2	<0.005%	<0.005%	<0.005%	<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%	<0.005%	<0.005%	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		17	18	19+20+21	
Dibutyl phthalate(DBP)	84-74-2	<0.005%	<0.005%	<0.005%	<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%	<0.005%	<0.005%	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<0.005%	0.0542%	<0.005%	

Test Item	CAS No.	Result			Limit
		22+23+24	25+26+27	28+29	
Dibutyl phthalate(DBP)	84-74-2	<0.005%	<0.005%	<0.005%	<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%	<0.005%	<0.005%	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<0.005%	<0.005%	<0.005%	

B. Additional requirements for toys and children articles, which can be placed in mouth by the children

Test Item	CAS No.	Result			Limit
		1+2+3	4+5+6	7+8+9	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.005%	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	<0.005%	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		10+11+12	13+14+15	16	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.005%	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	<0.005%	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		17	18	19+20+21	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.005%	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	<0.005%	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		22+23+24	25+26+27	28+29	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.005%	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	<0.005%	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	<0.005%	<0.005%	

Note: < denotes less than.

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Test Results:

11. Total cadmium analysis

Ref.: Annex XVII Item 23 of the REACH Regulation and Commission Regulation (EC)No.552/2009 & (EU) No 494/2011 & (EU) No 835/2012 & (EU) 2016/217

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Test sample</u>	<u>Result (mg/kg)</u>	<u>Limit(mg/kg)</u>
<u>1+2+3</u>	<5	100
<u>4+5+6</u>	<5	100
<u>7+8+9</u>	<5	100
<u>10+11+12</u>	<5	100
<u>13+14+15</u>	<5	100
<u>16+17+18</u>	<5	100
<u>19+20+21</u>	<5	100
<u>22+23+24</u>	<5	100
<u>25+26+27</u>	<5	100
<u>28+29</u>	<5	100

- Notes: 1. mg/kg denotes milligram per kilogram.
2. Method detection limit=5mg/kg.
3. < denotes less than.

12. Australian/ New Zealand Standard for Safety of Toys

12.1 AS/ NZS ISO 8124-3:2012+A1:2016 - Part 3: Migration of certain elements

Determined by: Inductively Coupled Plasma Mass Spectrometry

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Results:

	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Results:

	<u>29</u>	<u>Limit</u>
Soluble lead.....	<5ppm	90ppm
Soluble cadmium.....	<5ppm	75ppm
Soluble chromium.....	<5ppm	60ppm
Soluble barium.....	<5ppm	1000ppm
Soluble antimony.....	<5ppm	60ppm
Soluble arsenic.....	<2ppm	25ppm
Soluble mercury.....	<5ppm	60ppm
Soluble selenium.....	<5ppm	500ppm

Note: < denotes less than.

13. GB 6675.4-2014, Part 4: Migration of certain elements

Determined by: Inductively Coupled Plasma Mass Spectrometry

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Results:

	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>21</u>	<u>22</u>	<u>23</u>	<u>24</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>29</u>	<u>Limit</u>			
Soluble lead.....	<5ppm	90ppm			
Soluble cadmium.....	<5ppm	75ppm			
Soluble chromium.....	<5ppm	60ppm			
Soluble barium.....	<5ppm	1000ppm			
Soluble antimony.....	<5ppm	60ppm			
Soluble arsenic.....	<2ppm	25ppm			
Soluble mercury.....	<5ppm	60ppm			
Soluble selenium.....	<5ppm	500ppm			

Note: < denotes less than.

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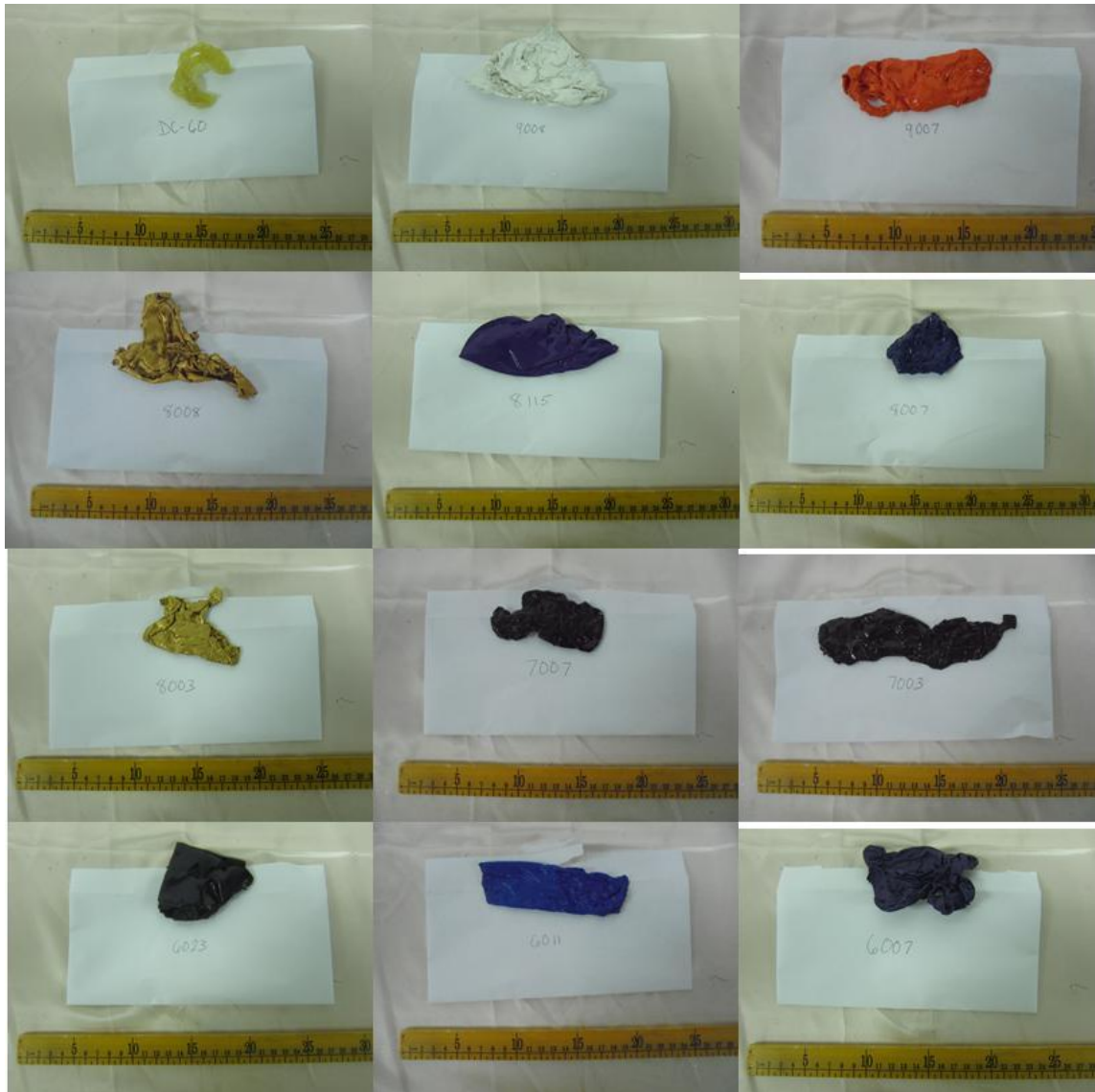


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The photo of submitted samples



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***** End of Test Report *****

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
5. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
10. Issuance records of the Report are available on the internet at www.stc-group.org. Further enquiry of validity or verification of the Reports should be addressed to the Company.

Chain of Custody Record

Wednesday, April 25, 2018

Quote No. TTL1804028 ASSORTED INKS

Client Information

Client Name: Dischem International, Inc.	Contact Name: Raj Lakhia
Client Address: 4252 Strausser Street N.W.	Phone: 330-494-5210
City, State: North Canton, OH	Fax: 330-494-1305
Zip/Postal Code: 44720	Email: raj.lakhia@dischem.com
Additional Emails:	

Product Information

Project Name: ASSORTED INKS	
Age Grade:	Manufacture Date:
Item #:	Tracking Info:

TTL Contact Information

Representative: Philip Kalf	Office: 401-562-1360
Street Address: 41 Illinois Ave.	Mobile: 401-573-6085
City, State: Warwick, RI	Fax: 401-732-8034
Zip/Postal Code: 02888	Email: pkalf@ttl-labs.com

Billing Information

Bill To: Dischem International, Inc.	
Billing Contact: Raj Lakhia	Phone: 330-494-5210
Billing Address: 4252 Strausser Street N.W.	Fax: 330-494-1305
City, State: North Canton, OH	Email: raj.lakhia@dischem.com
Zip/Postal Code: 44720	PO#:

Testing Summary

Turn-Around: 5 - 7 Business Days Standard

Quote Valid Until:

Comments:

Important Sample Handling Information

- All samples are disposed of **45 days** after the final report is issued unless TTL Laboratories is contacted to make alternate arrangements.
- Please refer to the "Analytical Services Quotation" for specific testing details.

By Signing the "Relinquished By" Section of the Chain of Custody Record, I hereby authorize TTL Laboratories to begin the analysis outlined in the Analytical Services Quotation below.

Relinquished By: <u><i>Raj Lakhia</i></u>	Date: <u>4/25/18</u>	Time: <u>10³⁰ AM</u>
Received By: <u>Philip Kalf</u>	Date: <u>4-25-18</u>	Time: <u>10:41</u>

Lab Use Only - WO#

1804-08545