

Flashbay Electronics
Building2, Jixun Industrial Park, Xinjiao, Dong'ao
Village, Shatian Town, Huiyang District, Huizhou
City, Guangdong Province, P.R.China

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TEST REPORT

Test Report No. : **4944837.52** Version 1

Project No. : **4944837.00**

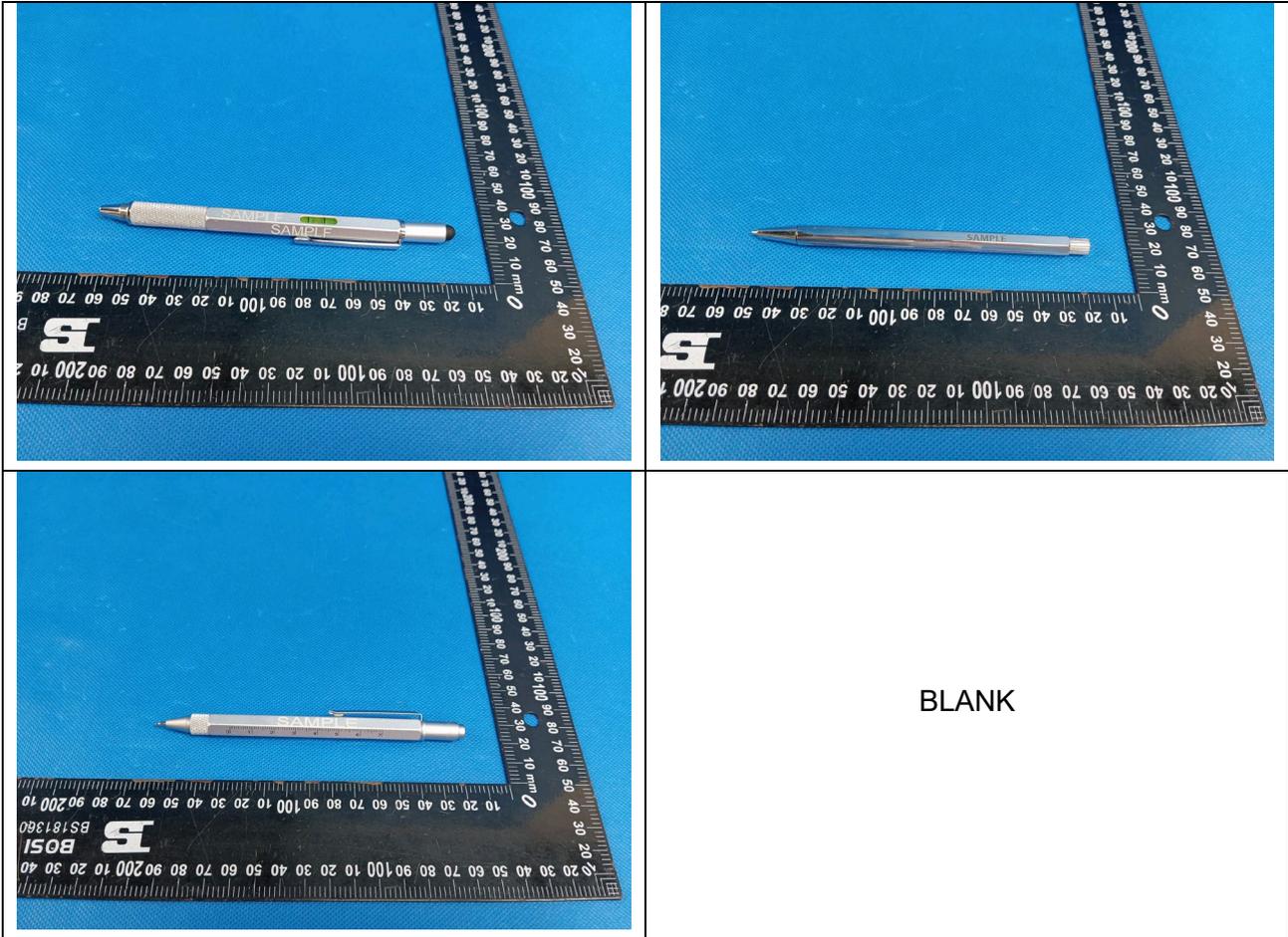
Test Report Date : **2025-10-11**

Job No. : 25-03463
Applicant : Flashbay Electronics
Building2, Jixun Industrial Park, Xinjiao, Dong'ao Village, Shatian
Town, Huiyang District, Huizhou City, Guangdong Province, P.R.China
Product Name : Pen Series / Multi Tool
Model No. : Gravity (GV),
Architect (AH),
Star (SY)
Reference Information : Annex 1 (List was provided by applicant)

<i>Test Requested</i>	<i>Conclusion:</i>
1) Toxic Substances Control Act - 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	PASS
2) Toxic Substances Control Act - Pentachlorothiophenol (PCTP)	PASS
3) Toxic Substances Control Act - Hexachlorobutadiene (HCBd)	PASS
4) Toxic Substances Control Act - Decabromobiphenylether (decaBDE)	PASS
5) Toxic Substances Control Act - Phenol, isopropylated phosphate (PIP(3:1))	PASS

Sample Received : 2025-09-16, 2025-09-26, 2025-10-09
Testing Period : 2025-09-16 to 2025-10-11
Test Results : Refer to data listed in following pages

TESTED SAMPLE PHOTO:



Signed for and on behalf of
DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch
Chemical & Mechanical




Devin Ai
Laboratory Manager

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.

TESTED COMPONENTS:

- (1) Grey/black/light grey coating on metal (pencil body) (Mechanical pencils)
- (2) Inaccessible white paper (inside pencil cap) (Mechanical pencils)
- (3) White plastic (pencil core tube) (Mechanical pencils)
- (4) Black material (pencil core) (Mechanical pencils)
- (5) White plastic (connected to pen core tube and pencil tip) (Mechanical pencils)
- (6) Black coating on metal (printing on pen body) (metal pens)
- (7) White plastic (inner top rod/turntable of pen cap) (metal pens)
- (8) Black plastic (pen refill) (metal pens)
- (9) Inaccessible black plastic (pen refill inner) (metal pens)
- (10) Black ink (metal pens/Tool pen)
- (11) Black plastic (pen cap) (Tool pen)
- (12) Black plastic (pen lead) (Tool pen)
- (13) White plastic (level) (Tool pen)
- (14) Transparent plastic (level) (Tool pen)
- (15) Inaccessible green liquid (level) (Tool pen)
- (16) Inaccessible white plastic (pen inner)
- (17) Black plastic (pencil tip inner) (Mechanical pencils)

TEST RESULTS

1) Toxic Substances Control Act- 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(1)	(2)/(3)/(4)	(5)/(7)/(8)		
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	N.D.	N.D.	N.D.	0.005	0.3

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(6)	(9)/(11)/(12)	(10)		
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	N.D.	N.D.	N.D.	0.005	0.3

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(13)/(14)/(16)	(15)	(17)		
2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP)	732-26-3	N.D.	N.D.	N.D.	0.005	0.3

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

2) Toxic Substances Control Act- Pentachlorothiophenol (PCTP)

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(1)	(2)/(3)/(4)	(5)/(7)/(8)		
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	0.005	1

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(6)	(9)/(11)/(12)	(10)		
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	0.005	1

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(13)/(14)/(16)	(15)	(17)		
Pentachlorothiophenol (PCTP)	133-49-3	N.D.	N.D.	N.D.	0.005	1

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

3) Toxic Substances Control Act-Hexachlorobutadiene (HCBD)

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(1)	(2)/(3)/(4)	(5)/(7)/(8)		
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(6)	(9)/(11)/(12)	(10)		
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(13)/(14)/(16)	(15)	(17)		
Hexachlorobutadiene (HCBD)	87-68-3	N.D.	N.D.	N.D.	0.005	Not Detected

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

4) Toxic Substances Control Act-Decabromobiphenylether (decaBDE)

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(1)	(2)/(3)/(4)	(5)/(7)/(8)		
Decabromodiphenyl	1163-19-5	N.D.	N.D.	N.D.	0.005	Not

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(1)	(2)/(3)/(4)	(5)/(7)/(8)		
ether (DecaBDE)						Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(6)	(9)/(11)/(12)	(10)		
Decabromodiphenyl ether (DecaBDE)	1163-19-5	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(13)/(14)/(16)	(15)	(17)		
Decabromodiphenyl ether (DecaBDE)	1163-19-5	N.D.	N.D.	N.D.	0.005	Not Detected

Remark:

1. N.D. = Not Detected (below MDL)
2. MDL = Method Detection Limit
3. % = Percentage

5) Toxic Substances Control Act-Phenol, isopropylated phosphate (PIP(3:1))

With reference to EPA 3550C:2007 & EPA 8270E:2018, Analysis was performed by solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS).

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(1)	(2)/(3)/(4)	(5)/(7)/(8)		
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(6)	(9)/(11)/(12)	(10)		
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	N.D.	N.D.	N.D.	0.005	Not Detected

Test Item	CAS No	Result (%)			MDL (%)	Limit (%)
		(13)/(14)/(16)	(15)	(17)		
Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	68937-41-7	N.D.	N.D.	N.D.	0.005	Not Detected

Remark:

- 1. N.D. = Not Detected (below MDL)
- 2. MDL = Method Detection Limit
- 3. % = Percentage

Annex 1: Reference Information:

Remark: The information of Annex was submitted by the client. DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch takes no responsibility for any mistake caused by inaccuracy and/or invalid information.

The product photos of reference numbers were submitted by applicant.



---End of Report---