



The report shall not be reproduced without written approval from Intertek
Attention is drawn to the Terms and Conditions for Inspection printed overleaf.

TEST REPORT

NUMBER: TH-64372

APPLICANT: THE PILOTPEN CO., (THAILAND) LTD.
331, 331/1-3 SILOM RD.,
BANGRAK, BANGKOK 10500
ATTN: K.WECHAKIT

DATE: JAN 08, 2018

SAMPLE DESCRIPTION:

FOUR (4) PACKS OF SUBMITTED SAMPLE SAID TO BE MARKER

ITEM NO : BI-MARKER
DATE SAMPLE RECEIVED : JUNE 30, 2004

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

CONCLUSION:

<u>TESTED SAMPLES</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLE	EN71 PART 3 : 1994 WITH THE INCORPORATION OF AMENDMENT A1:2000	PASS

PREPARED AND CHECKED BY :
FOR INTERTEK TESTING SERVICES

AUTHORIZED BY :
FOR INTERTEK TESTING SERVICES

Paaweena

PAWEENA THAPANA-ANANT
SUPERVISOR
TOYS, FOOD & HARDLINES DIVISION

(FOR) *Phanit*

PHANIT HITAPONG
DIVISION MANAGER
TOYS, FOOD & HARDLINES DIVISION

TEST REPORT

NUMBER: TH-64372

TESTS CONDUCTED

1. TOXIC ELEMENTS ANALYSIS
AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 3 : 1994 WITH THE INCORPORATION OF AMENDMENT A1:2000, TOXIC ELEMENTS MIGRATION WERE DETERMINED BY INDUCTIVELY COUPLE PLASMA OPTICAL EMISSION SPECTROMETRY.

	RESULT IN mg/kg					LIMIT
	(A)	(B)	(C)	(D)	(E)	mg/kg
SOL. BARIUM (Ba)	<5	<5	<5	<5	<5	1000
SOL. LEAD (Pb)	<5	7	<5	<5	<5	90
SOL. CADMIUM (Cd)	<5	<5	<5	<5	<5	75
SOL. ANTIMONY (Sb)	<5	<5	<5	<5	<5	60
SOL. SELENIUM (Se)	<5	<5	<5	<5	<5	500
SOL. CHROMIUM (Cr)	<5	<5	<5	<5	<5	60
SOL. MERCURY (Hg)	<5	<5	<5	<5	<5	60
SOL. ARSENIC (As)	<1	2	<1	<1	1	25

REMARK : SOL. = SOLUBLE
 < = LESS THAN
 mg/kg = MILLIGRAM PER KILOGRAM BASED ON WEIGHT OF SAMPLE;
 (A) = MULTICOLOR SILKSCREEN ON STICKER
 (B) = GREEN/GRAY TRANSLUCENT PLASTIC
 (C) = BLACK/RED/BLUE PLASTIC
 (D) = GREEN/BLACK INK
 (E) = BLUE/RED INK

DATE TEST STARTED : JAN 08, 2018
 ***** E N D *****/NP



THE PILOT PEN CO., (THAILAND) LTD

ISSUE NO : 01

REVISION NO. : 01

MSDS no.

Page

ISSUE DATE : JAN 08 , 2018

EFFECTIVE DATE : JAN 08 , 2018

IP 003

1/4

MATERIAL SAFETY DATA SHEET

1. Production & Company Identification

- 1.1 Writing Ink Names : **BI-marker ink (Black, Red, Blue, Green)**
- 1.2 Manufacturer / Supplier : THE PILOT PEN CO.,(THAILAND)LTD.
Address : 40/1-3 Moo 12 Bangbon 5 Rd. Nongkhaem,
Bangkok 10160 Thailand
Telephone number : (662) 429-3950
Fax number : (662) 429-3954

2. Composition / Information on Ingredients

Substance / Mixture	Cas no.	Weight (%)
Ethanol	64-17-5	51.0 ~ 64.8
1-Methoxy-2-Propanol	107-98-2	10.0 ~ 30.0
Benzyl Alcohol	100-51-6	3.0

3. Hazards Identification

Class name of Hazardous chemical for SDS in Japan

- Flammable Liquid
Acute Toxic substances
- 1) Physical and Chemical hazards : Flammable liquid
- 2) Adverse human health effects : Irritating to eyes
: Irritating to skin
: Harmful by inhalation
: Harmful by swallowed
- 3) Environmental effect : Not available

4. First Aid Measures

- 4.1) Eye contact : Gently rinse the effected eyes with clean water for at least 15 minutes and refer for medical attention.
- 4.2) Skin contact : Wash the affected area under tepid running water using a mild soap
- 4.3) Inhalation : Remove the victim from the contamination immediately to fresh air and refer for medical attention.
- 4.4) Ingestion : Refer for medical attention



THE PILOT PEN CO., (THAILAND) LTD

ISSUE NO : 01

REVISION NO. : 01

MSDS no.

Page

ISSUE DATE : JAN 08 , 2018

EFFECTIVE DATE : JAN 08 , 2018

IP 003

2/4

5. Fire-Fighting Measures

- 5.1) Extinguishing media : In case of fire use water spray, foam, dry chemical powder or carbon dioxide.
- 5.2) Specific hazard with regard to fire fighting measures : Apply water from a safe distance to cool and protect surrounding area.

6. Accidental Release Measures

Absorb spill with material (e.g. dry sand or earth, cloth), then place in a chemical waste containers

7. Handling & Storage

- 7.1) Handling
- : Avoid rough handling of dropping.
 - : Keep container tightly closed.
 - : Wear protective safety glasses, gloves
- 7.2) Storage
- : Inside storage should be in a well-ventilated, noncombustible location, away from all position source of ignition.
 - : Follow the local law and regulations in your country

8. Exposure control / Personal protection

- 8.1) Control parameters
- | | |
|----------------------|---------------|
| Ethanol | 1000 ppm. |
| 1-Methoxy-2-Propanol | 100 ppm. |
| Benzyl Alcohol | Not available |
- 8.2) Engineering measures
- : Use with local exhaust ventilation
- 8.3) Personal protective equipment
- Respiratory protection : Industrial canister gas masks.
 - Eye protection : Safety glasses
 - Hand, Skin and Body protection : Rubber gloves

9. Physical & Chemical properties

Physical state, form :

- 9.1) Appearance : Liquid
- 9.2) Color : Black, Red, Blue, Green
- 9.3) Density : 0.865 - 0.907@30.0 °C



THE PILOT PEN CO., (THAILAND) LTD

ISSUE NO : 01

REVISION NO. : 01

MSDS no.

Page

ISSUE DATE : JAN 08 , 2018

EFFECTIVE DATE : JAN 08 , 2018

IP 003

3/4

- 9.4) Flash point : 14 ° C (Ethanol)
9.5) Autoignition temperature : 392 ° C (Ethanol)
9.6) Upper and Lower explosion limit : 19.0 Vol.%, 3.3 Vol.% (Ethanol)
9.7) Boiling point : 78.325 ° C (Ethanol)
9.8) Vapor pressure : 44 mmHg@20.0 ° C (Ethanol)
9.9) Solubility in water : Insoluble
9.10) Solubility in

10. Stability & Reactivity

- 10.1) Flammability : Flammable
10.2) Spontaneous combustibility : Not available
10.3) Reactivity with water : This material is stable
10.4) Oxidizibility : This material is stable
10.5) Self-reactivity : This material is stable
10.6) Stability & Reactivity : This product is considered a stable material under normal and anticipated storage and handling conditions.

11. Toxicological Information

- 11.1) Corrosive and irritant properties : No data
11.2) Allergenic and sensitizing effect : No data
11.3) Acute toxicity : Ethanol
LDLo 1400 mg./kg (Human oral)
LD50 13700 mg./kg (Rat oral)
1-Methoxy-2-Propanol
LD50 6.6 g./kg (Rat oral)
LD50 13.0 g./kg (Rat skin)
Benzyl alcohol
LD50 1230 mg./kg (Rat oral)
LD50 2000 mg./kg (Rabbit skin)
LC50 1000 mg./kg (Rat suction)
- 11.4) Sub-chronic toxicity : No data
11.5) Chronic toxicity : No data
11.6) Carcinogenic effects : No data
11.7) Mutagenic effects : No data
11.8) Effects on the reproductive system : No data
11.9) Teratogenic effects : No data



THE PILOT PEN CO., (THAILAND) LTD

ISSUE NO : 01

REVISION NO. : 01

MSDS no.

Page

ISSUE DATE : JAN 08 , 2018

EFFECTIVE DATE : JAN 08 , 2018

IP 003

4/4

12. Ecological information

- 12.1) Biodegradability : No data
12.2) Bioaccumulation : No data
12.3) Fish toxicity : No data

13. Disposal consideration

Follow all regulations in your country

14. Transport information

- 14.1 Follow all regulations in your country
14.2 Writing ink
- UN Class : Class 3
- UN No : 1210 (Writing ink)

15. Regulatory information

Follow all regulations in your country

16. Other information

The information here is given in good faith, but no warranty, express or implied is made.