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Technical Data Sheet

Date
 29.3.2011

Name of the Product: DETECTAMET FINE
 MARKER PEN
 PRODUCT CODES DTMFM0038 (BLACK INK)
 DTMFM0039 (BLUE INK)
 DTMFM0040 (RED INK) DTMFM0041 (GREEN
 INK)

1) Product Description

The Detectamet Fine Marker Pen available in 4 different colours
 The nibs are of FIBRE nibs of 2.2 x 31.5 mm

2) Part Information Standard

The pen is built up of following parts.
 List of parts:- Cap, Barrel, B. plug, Top & NOZZLE
 Colour of Top, Nozzle & B. plug:- BLUE ,BLACK, GREEN, RED.
 Colour of barrel & Cap:- BLUE

Plastic Parts

Part Name	Color	Raw material	Grade	Supplier	weight/pc
BARREL & CAP	BLUE	PP	110	in house	
TOP	BLUE	GPPS (80 %) + K RESIN (20 %)	LV 201 + KR99	in house	
	RED	GPPS (80 %) + K RESIN (20 %)	LV 201 + KR99	in house	
	GREEN	GPPS (80 %) + K RESIN (20 %)	LV 201 + KR99		
	BLACK	GPPS (80 %) + K RESIN (20 %)	LV 201 + KR99	in house	
BACK PLUG & NOZZLE	BLUE ,BLACK ,RED & GREEN	PP	110	in house	

3) Parts of the Refill

Part Name	Type of material	Colour	Dimension/ Qty	Ball dia Shape&RM/ Grade	Supplier
a) Writing Tips	FIBRE	BLACK	2.2X 1.97 X 1.7 X 31.5		Detectamet Ltd
	PH - 2AR - BK - MP				
b) FILTER	POLYSTER		92 X 5.7		Detectamet Ltd

		XPE 435108			
c)	Liquid Ink	Detectamet Fine Marker Pen	BLUE	1 GM	Detectamet Ltd
	1A1 / X 1.6 / 250 / 08	Detectamet Fine Marker Pen	BLACK	1 GM	
	J/HC/050	Detectamet Fine Marker Pen	RED	1 GM	Detectamet Ltd
		Detectamet Fine Marker Pen	GREEN	1 GM	Detectamet Ltd
d)	Silicon Grease				

4) **Writing test performance**

Check Point	Units	Standard	Remarks
Initial Writing	mm	Start within 5 mm	Good
Line Quality	+/0/-	Should be distinct	Good
Soft Writing	8m	Not Determined	
Cap off	Hour	1 hour	1 Hour
Skipping	Double Lining	No Skipping	Meet the condition
Starving		No Starving	Meet the condition
Blobbing		Not Applicable	
Line Width			
Ink shade		Blue, Black, Red, Green	
Writing Length	M	300 mtrs - 350 mtrs	

5) **Cap/Barrel Decoration**

Part	Barcode/Sticker Position	Barcode/Sticker Matter & Type	Printing Position	Printing Ink
Detectamet Fine Marker Pen	Foil	rectangular		

6) **Packaging Overview**

Particular	Material	Size	Contents	Supplier
Detectamet Fine Marker Pen				
10 PCS BOX		140x60x25	10	Detectamet Ltd
100 PCS INNER		155x145x130	100	Detectamet Ltd
1000 PCS OUTER		730x350x145	1000	Detectamet Ltd

7) **Label :**

Functional Specification

Test Items	Unit	Required Value	Actual Value
Mechanical Properties			
Cap off force front	Kgs	1.5 TO 1.8	2.00 - 2.5 kgs
Cap off force back	Kgs		1.5 - 1.8 kgs
Pullout force			

a) Adaptor to barrel	Kgs	15.2 kgs
b) Tips to tip holder	Kgs	Not Determined

8) **Barcode Sticker**

Detectamet Fine Marker Pen

On Barrel

Position of the sticker

W = 3.2mm, L = 8.2 mm colour (1)

Through the barrel

9) **Storage Requirement**

Shelf life

Shipment Test

Shipment under real condition

No impact on the performance

No damage of packed carton from 1 mtr. height

Drop Test

10) **Other**

Traceability

Month / Year painted on Pen Box.

This Information is for the reference only subject to change without any prior notice to be verified at the time of finalising the order.

Data Attached – MSDS of Ink attached along with this report.

MATERIAL SAFETY DATA SHEET – CD DVD MARKER INK

1 General Information		
1.1	Common Name	Detectamet CD-DVD Marker-- CidiMark Ink-Dye Based Solvent Ink
1.2	Shade	Blue, Black, Red, Green
1.3	EN-71 Part- 3	Passes
1.4	Company Identification	Detectamet Ltd Unit 55 Halifax Way Pocklington Industrial Estate Pocklington York YO42 1NR
1.5	Emergency Telephone	Tel : 01759 304200

2 Composition/Information on Ingredients		
2.1	Composition	Alcohol, Solvent Dyes, Additives
2.2	Hazardous Ingredients	None

3 Hazards Identification	
3.1	This product is not classified as hazardous

4 First Aid Measures		
4.1	Eyes & Skin	Wash with plenty of water in case of contact with skin and eye.
4.2	Inhalation/Ingestion	Obtain medical attention – wash out mouth with water

5. Fire Fighting Measures		
5.1	Suitable Extinguishing Media	Water, Water-mist, Foam, Dry Powder, CO ₂
5.2	Special Exposure Hazards	None
5.3	Special Protective Equipment	Wear self breathing apparatus in the event of fire

6. Accidental Release Measures		
6.1	Personal Precautions	Avoid inhalation and contact with skin and eyes. Wear recommended protective equipments.
6.2	Environmental Precautions	In case of spillage use clay, sand or mud and wipe up with cloth. Disposal should as per local laws governing pollution.

7. Handling and Storage		
7.1	Handling	Apply good hygienic practice as employed with any industrial chemical. Provide local exhaust or general room ventilation.
7.2	Storage	Store in a dry and cool place. Keep container closed when not in use.

8. Exposure Controls/Personal Protection		
8.1	Gloves	Chemical resistant.
8.2	Eye protection	Chemical safety goggles.
8.3	Hygienic Measure	Do not eat, drink or smoke during work. Change immediately contaminated clothes.

MATERIAL SAFETY DATA SHEET – CD DVD MARKER INK

9.	PHYSICAL/CHEMICAL PROPERTIES	
9.1	Boiling Point	84 - 138°C
9.2	Density (30°C)	0.90 – 0.95gms/cc
9.3	Viscosity (30°C)	2 – 3 cp
9.4	pH Value (30°C)	N.A.
9.5	Solubility in Water	Partly Soluble
9.6	Flash Point	73-75°F
9.7	Ignition Temperature	120°F

10.	STABILITY AND REACTIVITY	
10.1	Stability	Product is stable
10.2	Thermal decomposition	None
10.3	Hazardous Reaction	None, if property stored

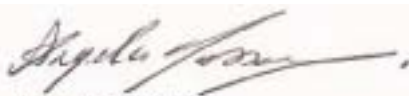
11.	Toxicological Information	
11.1	LD 50 oral (rat)	(rat) 1000 ppm
11.2	Skin Irritation	N.A.
11.3	Inhalation risk	(rat: test results depends on toxicity on volatility) N.A.

12.	Ecological Information	
12.1	Mobility Results	This product is partly soluble in water. No negative effects to expect based on the present state of knowledge and experience
12.2	Additional Information about Ecology water pollution class	Not known

13.	Disposal Considerations	
13.1	Disposal must be in accordance with local and national legislation.	
13.2	Unused product	As per local laws

14.	Transport Information	
14.1	This product is NOT classified as dangerous for transport	

15.	Regulatory Information Transport Information	
15.1	Hazard Label Data	This product is NOT classified as dangerous for supply

16.	Other Information	
16.1	The information contained herein is based on the present state of knowledge and does not therefore guarantee certain properties. Our customer must take responsibility for observing existing laws and regulations.	
16.2	Contact person	Ms Angela Musson  Angela Musson Director

MATERIAL SAFETY DATA SHEET – CD DVD MARKER INK

16.3	Date	18 June 2012
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The information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties, of any kind are made as to its accuracy, liability for a particular application or results to be obtained from them. It is however ensured that the information contained in the material safety datasheet is relevant to the product manufactured / handled or sold as the case may be by us.

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