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## DATA SHEET

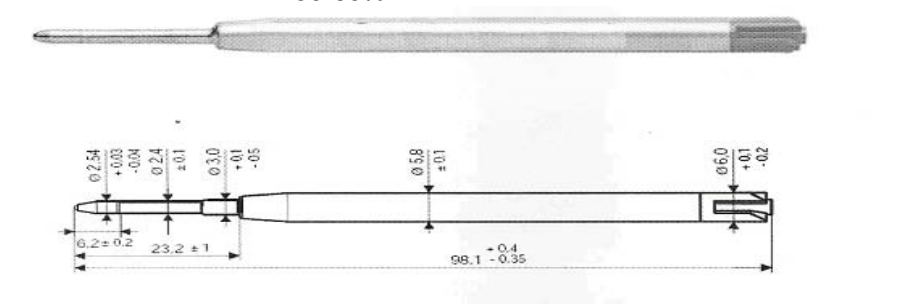
Ballpoint pen refills  
Nickel Silver tube  
Stainless steel tip  
Tungsten Carbide ball  
Ball size 1,0 mm – medium

These refills meet the:

- International Norm ISO 12757-2 DOC G2
- European Commission Directive 2004/73/EC of 29 April 2004 adapting to technical progress for the twenty-ninth time Council Directive 67/548/EEC
- Verordnung über Gebrauchsgegenstände der Schweiz – GebrV SR817.04 (Swiss regulation for consumer goods concerning aromatic amines)
- TSCA List USA
- MITI List Japan
- REACH : SVHC content < 0,1%  
CMR content < 0,1%

Write-out length :            Approx. 9.400 m +/- 25%

Shelf life :                    At least 2 years when stored under normal climatic conditions, i.e.  
At a temperature of approx. 22-25° C and at a humidity of approx  
50-60%.



## Material Safety Data Sheet

<b><u>1. Identification of Substance</u></b>	
Product Details	
<b>Trade Name:</b>	Detectamet Pen
<b>Article Number:</b>	Retractable Refill
<b>Manufacturer/Supplier:</b>	Detectamet Ltd
	Unit 55 Halifax Way
	Pocklington Industrial Estate
	Pocklington
	YORK
	YO42 1NR
<b>Informing Department:</b>	N/A
<b>Emergency Information:</b>	N/A
<b>In Case of Emergency:</b>	N/A
<b>Transport of Dangerous Goods:</b>	N/A

<b><u>2. Composition/Date on Components</u></b>	
<b>Chemical Characteristics</b>	
<b>Description:</b>	Refills with nickel silver tube Stainless Steel tips with tungsten carbide balls. 1.0mm - medium
<b>Dangerous Components:</b>	None

<b><u>3. Hazards Identification</u></b>	
<b>Hazard Designation:</b>	N/A
<b>Classification System:</b>	N/A

<b><u>4. First Aid Measures</u></b>	
<b>After Inhalation supply fresh air; consult doctor in case of symptoms</b>	
<b>After Skin Contact:</b>	Instantly wash with water and soap and rinse thoroughly.
<b>After Eye Contact:</b>	Rinse opened eye for several minutes under running water. Then consult doctor.
<b>After Swallowing:</b>	In case of persistent symptoms consult doctor.

<b><u>5. Fire Fighting Measures</u></b>	
<b>Suitable Extinguishing Agents:</b>	N/A
<b>Protective Equipment:</b>	No special measures required.

<b><u>6. Accidental Release Measures</u></b>	
<b>Person-related safety precautions:</b>	See item 7.
<b>Measures for environmental protection:</b>	No special measures required.
<b>Measures for cleaning/collecting</b>	N/A

<b><u>7. Handling &amp; Storage</u></b>	
<b>Handling</b>	
<b>Information for safe handling:</b>	Keep away from heat
<b>Information about protection against explosions &amp; fires:</b>	N/A
<b>Storage</b>	
<b>Requirements to be met by Storerooms &amp; containers:</b>	Store in a cool location. Observe official regulations on storing packaging.
<b>Information about storage in one common storage facility:</b>	Not required
<b>Further information about storage conditions:</b>	None
<b>Storage Class</b>	
<b>Class according to regulation on inflammable liquid:</b>	N/A

<b><u>8. Exposure Controls and Personal Protection</u></b>	
<b>Additional information about design of technical systems:</b>	No further data; see item 7.
<b><u>Components with critical values that require monitoring at the workplace:</u></b>	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
<b>Additional Information:</b>	The lists that were valid during the compilation were used as a basis.
<b>Personal protective equipment:</b>	
<b>General protective &amp; hygienic measures:</b>	Wash hands during breaks and at the end of the work.
<b>Breathing equipment:</b>	Not required
<b>Protection of the hands:</b>	Not required
<b>Eye protection:</b>	Not required

<b><u>9. Physical and chemical proportions:</u></b>			
<b>Form:</b>	Metallic Tube		
<b>Colour:</b>	According to product specification		
<b>Smell:</b>	None		
<b>Change In Condition</b>	<b>Value/Range</b>	<b>Unit</b>	<b>Method</b>
<b>Melting point/Melting range:</b>	N/A		
<b>Boiling point/Boiling range:</b>	N/A		
<b>Flash point:</b>	N/A		
<b>Ignition temperature:</b>	N/A		
<b>Self-inflammability:</b>	Product is not self igniting		
<b>Danger of explosion:</b>	Product is not explosive		
<b>Steam pressure at 20°C:</b>	N/A		
<b>Density at 20°C:</b>	N/A		
<b>Solubility in/miscibility with Water:</b>	N/A		
<b>PH-value 20°C:</b>	N/A		
<b>Solvent content:</b>			
<b>Organic solvents:</b>	N/A		

<b>10. Stability and reactivity</b>	
<b>Conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>Dangerous reactions:</b>	No dangerous reactions known
<b>Dangerous products of composition:</b>	None

<b>11. Toxicological Information</b>	
<b>Acute toxicity:</b>	
<b>LD/LC50 values that are relevant for classification:</b>	N/A
<b>Oral LD 50:</b>	N/A
<b>Dermal LD 50:</b>	N/A
<b>Inhalative: LC 50/4h:</b>	N/A
<b>Primary Irritant Effect:</b>	
<b>On the skin:</b>	No irritant effect known
<b>On the eye:</b>	No irritant effect known
<b>Sensitization:</b>	No sensitising effect known

<b>12. Ecological Information</b>	
<b>Ecotoxicological effects:</b>	N/A
<b>Acquatic toxicity:</b>	N/A
<b>General Notes:</b>	Water hazard class 1 (Self-assessment): slightly hazardous for water.

<b>13. Disposal Considerations</b>	
<b>Product</b>	
<b>Recommendation:</b>	Can be disposed of together with household garbage.
<b>Uncleaned packaging</b>	
<b>Recommendation:</b>	Disposal must be made according to official regulations.
<b>Recommended cleaning agent:</b>	Water, if necessary with cleaning agent.

<b>14. Transport Information</b>	
<b>Land transport ADR/RID &amp; GGVS/GGVE (cross-border/domestic)</b>	
<b>ADR/RID-GGVS/E Class:</b>	N/A
<b>Number/Letter</b>	N/A
<b>Kemier Number:</b>	-
<b>UN-Number:</b>	N/A
<b>Label:</b>	N/A
<b>Designation of goods:</b>	N/A
<b>Maritime transport IMDG/GGVSea:</b>	
<b>IMDG/GGVSea Class:</b>	N/A
<b>Page:</b>	N/A
<b>UN Number:</b>	N/A
<b>Packaging Group:</b>	-
<b>EMS Number:</b>	N/A
<b>MFAG:</b>	N/A
<b>Correct Technical Name:</b>	N/A
<b>Air Transport ICAO-TI &amp; IATA-DGR:</b>	
<b>ICAO/IATA Class:</b>	N/A
<b>UN/ID Number:</b>	N/A
<b>Packaging Group:</b>	-

<b>Correct Technical Name:</b>	N/A
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<b><u>15. Regulatory Information</u></b>	
<b>Designation according to EC guidelines:</b>	<p>The product has been classified and labelled in accordance with EC Directives/Ordinacne on Hazardous Meterials (GefStoffV). Manufactured to International Norm ISO 12757-2 DOC G2</p> <p>European Commission Directive 2004/73/EC of 29.April 2004 adapting to technical progress the twenty-ninth time Council Directive 67/548/EEC</p> <p>TSCA List USA MITI List Japan REACH: SVHC content &lt; 0,1% CMR content&lt; 0,1%</p>
<b>Code letter and hazard designation of product:</b>	F+ Extremely Flammable
<b>Risk phrases:</b>	N/A
<b>Safety phrases:</b>	<p>N/A</p> <p>3 Keep in a cool place 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 28 After contact with skin wash immediately with plenty of soap and water.</p>
<b>Special designation of certain preparations:</b>	Do not expose to temperatures exceeding 50°C.
<b>National regulations</b>	
<b>Classification according to VbF:</b>	N/A
<b>Water hazard class:</b>	Class 1 (self-assessment) slightly hazardous for water.

<b><u>16. Other Information</u></b>
These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.