Sequentially Numbered Metal Detectable Highlighters- 150 – A06

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This statement refers to the following Detectamet based products:

Product Name	Product Code	Description	Colour	Dimensions (LxWxD)	Material Type	Ink Colour
Sequentially Numbered Non - retractable Yellow Tip Highlighter	LE-150-A06-P05-A08-	Metal detectable highlighter, chisel tip, available in various ink colours.	MD Blue	115X25X18mm	PP	Yellow
Sequentially Numbered Retractable Yellow Chisel Tip Highlighter	LE-150-A05-P01- A08-	Metal detectable highlighter, chisel tip, available in various ink colours.	MD Blue	Length: 135.28 mm (5.32") Thickness: 11.68 mm (0.45") Thickness with clip: 18.59 mm (0.73")	PP	Yellow

Using laser engraving, we sequentially number these pens to support with traceability and accountability within processing environments.

Highlighter Body and Lid

Colour: Blue

Carrier polymer: PP

Addition Rate: 100%

Heat stability: 280 °C

Light Fastness: 7-8 ISO 4892 (Blue Wool scale)

Weather Stability: 4-5 ISO 4892 (ISO 105-A002)

Heavy Metals: NO

Diarylide: NO

Regulations and Standards

We confirm that the above mentioned products are suitable for use in contact with all food types and are in conformity with the applicable requirements of the following regulations and standards:

• Regulation (EC) no.1935/2004 on Materials and Articles intended to come into contact with food.

• Commission Regulation (EU) No.10/2011 on Plastic materials intended to come into contact with food including its updates Regulation 1282/2011 and Regulation 1183/2012.

• Regulation (EC) no. 2023/2006 on Good Manufacturing Practice for materials and articles intended to come into contact with food.

• Council of Europe Resolution AP 89/1 on the use of Colorants in Plastic Materials coming into contact with food.

• US FDA 21 CFR 177.1520 (Olefin polymers) with colorants and additives cleared for use through listing in 178.3297 (Colorants for polymers), 178.2010 (antioxidants and/or stabilisers for polymers, or other respective parts of the FDA regulations.

Migration test data obtained under short-term repeat use test conditions (6dm2/kg food) has demonstrated that levels of overall migration and specific migration of additives from these products will not exceed the legal limits with all food types.

Test Simulants	Food Types	Testing Condition
A-C, D1, D2 of Regulation No. 10,2011 for Plastic Materials and Articles in contact with food.	All dry, aqueous, acidic, alcoholic and fatty foods.	2 hours at 70C, Repeat use. Test OM3 of regulation 10/2011

Dual-use food additives may be present but any migration into food will be minimal.

This compliance statement is based on information supplied by the polymer and pigment manufacturers, migration testing according to Regulation 10/2011, migration modelling and quality control systems in place at Detectamet.

Supporting documents are available and can be disclosed to the competent authority on request.

REACH – No substances of very high concern (SVHC) above the 0.1% weight (w/w) threshold limit are present in the materials.

Highlighter Ink- Yellow

1. Composition/Date on Components

Chemical characterisation Mixture of the following substances, containing non-hazardous substances and colouring agents.
Description Mixture of the substances listed below with non-hazardous additions.

Dangerous Components		
7732-18-15	Water	Balance
584-08-7	Potassium Carbonate	2.5 – 10%
2634-33-5	Biocide	0.1– 0.3 %
56-81-5	Glycerin	10 – 30 %
2650-18-2	Acid Blue-9	1.0– 5.0 %

2. Hazards Identification

Hazardous description Not applicable
Information pertaining to particular dangerous for person and environment The product does not have to be labelled due to the calculation procedure of the "General Classification guidline for preperations of the EU" in the latest valid version.
Classification system The classification was made according to the latest editions of international substances list and expanded upon from company and literature data.

HMIS hazard rating
Health 1
Flammability 0
Reactivity 0

0 = minimul / 3 = serious.

3. First Aid Measures

General Information No special measures required.
Inhalation Ensure supply of fresh air. In the event of symptoms refer for medical treatment
Skin contact In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion It swallowed, Dilute with water and induce vomiting, get medical attention.

4. Firefighting Measures

Extinguishing media Water, powder of NaHCo3, Co2 foam may be used.
Specific hazards This product is a water based product and is not expected to burn until all water has boiled away. The residual solids may support combustion.
Special protective equipment No special measures required.
Additional information No dangerous substances are released.

5. Accidental Release Measures

Personal precautions Ensure adequate ventilation. Keep away sources of ignition. High risk of slipping due to leakage/spillage of product.
Environmental precautions Do not discharge into the drains/ surface waters/ groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).
Methods for cleaning up/taking up Take up with absorbent material (e.g. sand). Dispose of absorbed material in accordance with the regulations. Dry clay. Vermiculate, Wipe up small spills with cloth.

6. Handling and Storage

Advice on safe handling Provide good room ventilation even at ground level (vapours are heavier than air).
Advice on protection against fire and explosion Keep away from sources of ignition - refrain from smoking. Vapours can form an explosive mixture with air. Ignitable mixtures can form in the empty container.
Requirements for storage rooms and vessels Provide solvent-resistant and impermeable floor. Keep only in original container.
Advice on storage compatibility Do not store together with oxidizing agents
Further information on storage conditions Store in cool, dry area, avoid freezing, sparks & open flames. Keep container closed when not in use.

7. Exposure Controls/Personal Protection

Respiratory protection Use Mask.
Hand protection Protective gloves (rubber) should be used.
Eye protection Safety glasses & to avoid the possibility of splashing in the eyes.
Skin protection Solvent-resistant protective clothing.
General protective measures Do not inhale vapors. Avoid contact with eyes and skin.
Hygiene measures At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Use barrier skin cream.

8. Physical and Chemical Properties

Form Coloured and clear liquid
Colour Blue
Odour Odourless
pH value 6.0 – 10.0
Boiling point (760 mmHg) Above 95°C at 760 mmHg
Flash point (°C) N/A
Flammability (°C) N/A
Lower explosion limit No data
Upper explosion limit No data

Combustible properties No data
Solvent content Organic solvent: 10-30%. Water: 57.9%
Vapour pressure (kPa) Not established.
Density g/cm^3 1.060 – 1.150
Solubility in water Dispersed in water.

Partition coefficient: noctanol/water Not determined.
Viscosity 1.5 – 3.0 mpas
Relative vapour density determined in air Not established.
Evaporation speed N/A
Melting point (°C) Not determined.
Autoignition temperature (°C) N/A
Decomposition temperature (°C) N/A

9. Stability and Reactivity

Hazardous reactions No dangerous reactions known.
Hazardous decomposition products No hazardous decomposition products known.

- **Acute Toxicity**

Primary irritant effect
On the skin No irritating effect.
On the eye No irritating effect
Sensitization No sensitizing effects known.
Experiences made in practice When used & handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to you.
General remarks Generally not hazardous for water. The product was classified on the basis of the calculation procedure of the preparation directive.

11. Ecological Information

General information Ecological data are not available. The information given below is based on knowledge of the product component.
Eco-toxicity N/A

12. Disposal Considerations

Disposal / Product Dispose of as hazardous waste. Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended) -
Disposal / Contaminated packaging Uncontaminated packaging may be taken for recycling.

13. Transport Information

DOT regulation:
Hazard class:
Land transport ADR/RID (cross-border):
ADR/RID class:
Maritime transport IMDG:
IMDG Class:
Marine pollutant : No
Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class:
Packaging group : Not applicable

14. Regulatory Information

- **Sara**

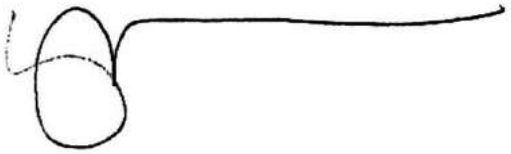
Section 355 (extremely hazardous substances) None of the ingredient is listed.
Section 313 (Specific toxic chemical listing) None of the ingredients is listed
TSCA (Toxic Substances Control Act) All ingredients are listed.
Proposition 65
Chemicals known to cause cancer:
None of the ingredients is listed
Chemicals known to cause reproductive toxicity for females None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males None of the ingredients is listed.
Chemicals known to cause developmental toxicity None of the ingredients is listed
Cancerogenity categories
EPA (Environment Protection Agency) None of the ingredients is listed
IARC (International Agency for Research on Cancer) None of the ingredients is listed.
NTP (National Toxicology Program) None of the ingredients is listed

TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed.
MAK (German Maximum Workplace Concentration) None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed
OSHA-Ca (Occupational safety & Health Administration) None of the ingredients is listed
Product related hazard informations Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.
National regulations
Water hazard class Generally not hazardous for water.

15. Other Information

The data are based on the current state of our knowledge and are intended to describe the product with regard to the requirments of safety. It is the responsibility of the user of the product to ensure to their satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility of any harm caused by the use of this information.

No warranty is given or implied with respect to this information or patent infringement. Detectamet Ltd do not accept liability for loss or damage arising from the use of this information. Results are based on a test sample, our general experience and information from our suppliers. Data and results must be confirmed by the buyer by testing for its intended conditions of use.



Helen Morrison
Group Managing Director