

DETECTAMET

Technical Data Sheet

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150

Non-Retractable Highlighter Blue Ink



Technical Data Sheet Applicable To:

150-A06-P01-A08	Non Retractable Highlighter Blue Ink
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Industry Usage:

These non-retractable highlighters have blue housing, and are available with 5 ink colours

Features and Benefits:

- Length: 114.87mm (4.52")
- Pen Thickness: 14.30mm (0.56")
- Pen Thickness with clip: 16.91mm (0.66")
- Metal Detectable & X-ray visible

Material and Compliance Information:

Material Information:

- Carrier polymer: PP
- Addition Rate: 100%
- Heat stability: 280°C (536°F)
- Light fastness: 7-8 ISO 4892 (Blue Wool Scale)
- Weather Stability: 4-5 ISO 4892 (ISO 105-A002)

- Heavy Metals: NO
- Dairylike: NO
- Additive: YES

Compliance Information:

The above is manufactured using pigments which are in accordance with: -

- European Resolution AP (89) 1
- Recommendation IX of the BfR for colouring plastics
- EN71-3 Toy regulation
- EU regulation EU No 2019/1381 amending Regulation EU No 1935/2004
- Is based on a polymer carrier that is compliant with: -
- EU regulation EU No 2020/1245 amending and correcting Regulation (EU) No 10/2011
- EU regulation EU No 2019/1381 amending Regulation EU No 1935/2004
- Has been produced according to Regulation 2023/2006/EC on good manufacturing practice for materials and articles intended to come into contact with food, applicable to plastic raw materials.

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.

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

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 it's 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 condition (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	All dry, aqueous, acidic, alcoholic and fatty foods	2 hours at 70c, Repeat use. Test OM3 of regulation 10/2011

Materials and Articles in contact with food.		
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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.

Material Safety Data Sheet:

1. Identification

Product name: HL-1109 Ink Blue

2. Hazards

Hazardous Description: N/A

Information pertaining to particular dangers for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification was made according to the latest editions of international substance lists, and expanded upon from company and literature data

HMIS Hazard Rating

Health hazards

Minimal = 0

Slight = 1

Moderate = 2

Serious = 3

Health = 1

Flammability = 0

Reactivity = 0

3. Composition and Ingredient Information

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:

Cas Number	Name	%
7732-18-5	Water	Balance
584-08-7	Potassium Carbonate	2.5 – 10%
2634-33-5	Biocide	0.1 – 0.3%
56-81-5	Glycerine	10 – 30%
2650-18-2	Acid Blue-9	1.0 – 5.0 %

4. 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: If swallowed, dilute with water and induce vomiting, get medical attention.

5. Firefighting Measures

Extinguishing Media: Water, powder of NaHCO_3 , CO_2 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

6. 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. Vermiculite. Wipe up small spills with cloth.

7. 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.

8. Exposure Controls and 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.

9. Physical and Chemical Properties

Form: Coloured & 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.

Solvent content: Organic Solvent – 10 – 30%, Water – 57.9%

Vapour pressure [kPa]: Not established

Density g/cm³: 1.060 – 1.150

Solubility in water: Dispersed in Water

Partition coefficient n-octanol / water: Not determined

Viscosity: 1.5 – 3.0 mPas

Relative vapour density determined in air: Not established

Evaporation speed: Not applicable

Melting Point [°C]: Not determined

Autoignition temperature [°C]: not applicable

Decomposition temperature: Not applicable

10. Stability and Reactivity Information

Hazardous reactions: No dangerous reactions known

Hazardous decomposition products: No hazardous decomposition products known

11. Toxicological Information

Acute toxicity

Primary irritant effect:

On the skin: No irritating effect

On the eye: No irritation 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.

12. Ecological Information

General Information: Ecological data is not available. The information given below is based on knowledge of the product component

Eco-toxicity: N/A

13. Disposal information

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

14. Transportation Information

<ul style="list-style-type: none">• DOT regulation:• Hazard class:
<ul style="list-style-type: none">• Land transport ADR/RID (cross-border):• ADR/RID class:
<ul style="list-style-type: none">• Maritime transport IMDG:• IMDG Class:• Marine pollutant : No
<ul style="list-style-type: none">• Air transport ICAO-TI and IATA-DGR:• ICAO/IATA Class:• Packaging group : Not applicable

15. Regulatory Information

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- **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
- **Carcinogenicity 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.

16. Other Information

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

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