

# DETECTAMET

## Technical Data Sheet

|                       |                           |
|-----------------------|---------------------------|
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### 146-A05

#### Retractable Permanent Markers



#### Technical Data Sheet Applicable To:

|                  |                                                                               |
|------------------|-------------------------------------------------------------------------------|
| 146-A05-P01-A08  | Retractable Permanent Marker Chisel Tip Blue Ink (Pack of 10)                 |
| 146-A05-P01-A07  | Retractable Permanent Marker Bullet Tip Blue Ink (Pack of 10)                 |
| 146R-A05-P01-A08 | Retractable Permanent Marker Chisel Tip Blue Ink with Split Ring (Pack of 10) |
| 146R-A05-P01-A07 | Retractable Permanent Marker Bullet Tip Blue Ink with Split Ring (Pack of 10) |

#### Industry Usage:

Robust, non-toxic, detectable permanent marker pens for writing on all surfaces – suitable for use in all food factory production environments.

#### Features and Benefits:

- Length: 148.41mm (5.84")
- Thickness: 15.77mm (0.62")
- Thickness with clip: 22.30mm (0.87")
- Metal Detectable & X-ray Visible
- Retractable
- Manufactured from EU & FDA approved food contact materials
- Bullet tip size: 3 to 4mm (0.11 – 0.15")
- Chisel tip size: 1.5 to 4mm (0.05 – 0.15")

## Material and Compliance information:

### Material Information:

- Carrier polymer: PP
- Addition Rate: 100%
- Light fastness: 7-8 ISO 4892 (Blue Wool Scale)
- Weather Stability: 4-5 ISO 4892 (ISO 105-A002)
- Heavy Metals: NO
- Dairylide: 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 (6dm<sup>2</sup>/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.

## Material Safety Data Sheet

### Section 1: Identification

Product Name: Orimac Ink Blue

Use of the substance/preparation: Permanent Marker Ink

Brand: Orient Chemical (Korea) LTD

### Section 2: Hazards Identification

#### Classification

Classification according to Regulation (EC) NO 1272/2008

Flammable Liquids (Category 2), H225

Eye Irritation (Category 2A), H319

Specific target organ toxicity, single exposure, Respiratory tract irritation (Category 3), H335, H336

For the full text of the H-Statements mentioned in the Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

|    |                  |     |
|----|------------------|-----|
| F  | Highly Flammable | R11 |
| Xi | Irritant         | R36 |
|    |                  | R67 |

For the full text of R-phrase(s) mentioned in the Section, see Section 16.

#### Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



Signal word: Danger

#### Hazard Statements

|      |                                    |
|------|------------------------------------|
| H225 | Highly flammable liquid and vapour |
| H319 | Causes serious eye irritation      |
| H335 | May cause respiratory irritation   |
| H336 | May cause drowsiness or dizziness  |

#### Precautionary statement(s)

|      |                                                                  |
|------|------------------------------------------------------------------|
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking |
| P233 | Keep container tightly closed                                    |
| P240 | Ground/bond container and receiving equipment                    |
| P241 | Use explosion-proof electrical/ventilation/lighting/equipment    |
| P242 | Use only non-sparking tools                                      |
| P243 | Take precautionary measures against static discharge             |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray                 |
| P264 | Wash thoroughly after handling                                   |
| P271 | Use only outdoors or in a well-ventilated area                   |

|                    |                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------|
| P280               | Wash thoroughly after handling                                                                                                     |
| P303 + P361 + P353 | If on skin (or hair): Remove/ take off all contaminated clothing immediately. Rinse skin with water/shower.                        |
| P304 + P340        | If Inhaled: Remove victim to fresh air and keep at rest in a comfortable position for breathing.                                   |
| P305 + P351 + P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. |
| P312               | Call a poison centre or doctor/physician if you feel unwell                                                                        |
| P337 + P313        | If eye irritation persists: Get medical advice/attention                                                                           |
| P370 + P378        | In case of fire: Use for extinction                                                                                                |
| P403 + P235        | Store in a well-ventilated place. Keep cool.                                                                                       |
| P404 + P233        | Store in a well-ventilated place. Keep container tightly closed.                                                                   |
| P405               | Store locked up                                                                                                                    |
| P501               | Dispose of contents/container to                                                                                                   |

Supplemental Hazard Statements – None

According to European Directive 67/548/ELS as amended  
Hazards symbol(s)



R-phrases(s)

|     |                                            |
|-----|--------------------------------------------|
| R11 | Highly flammable                           |
| R36 | Irritating to eyes                         |
| R67 | Vapours may cause drowsiness and dizziness |

S-phrases(s)

|        |                                                                                          |
|--------|------------------------------------------------------------------------------------------|
| S2     | Keep out of the reach of children                                                        |
| S7     | Keep container tightly closed                                                            |
| S7/8   | Keep container tightly closed and dry                                                    |
| S16    | Keep away from sources of ignition – No smoking                                          |
| S24/25 | Avoid contact with skin and eyes                                                         |
| S27/28 | After contact with stake off immediately all contaminated clothing, and wash immediately |

### Section 3: Composition/information on ingredients

| Ingredient Name      | CAS-No.    | EC-No.    | Content(%) | Classification |
|----------------------|------------|-----------|------------|----------------|
| Ethanol              | 64-17-5    | 200-578-6 | 45.0-50.0  | -              |
| 1-Methoxy-2-Propanol | 107-98-2   | 203-539-1 | 30.0-35.0  | -              |
| Basic Blue 7         | 2390-60-5  | 219-232-0 | 6.0-8.0    | -              |
| Phenolic Resin       | 54579-44-1 | 611-169-0 | 12.0-15.0  | -              |

### Section 4: First aid measures

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

In case of skin contact: Wash off with soap and plenty of water. Consult a physician

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

If swallowed: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

## Section 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture: No data available

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary

Further information: Use water spray to cool unopened containers.

## Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulation to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see Section 8.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections

For disposal see section 13

## Section 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition –

No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2

Conditions for safe storage, including any compatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

## Section 8: Exposure controls / personal protection

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU)

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Impervious clothing, flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Section 9: Physical and chemical properties

##### Information on basic physical and chemical properties

|                                              |                              |
|----------------------------------------------|------------------------------|
| Appearance                                   | Form: Liquid<br>Colour: Blue |
| Odour                                        | No data available            |
| Odour Threshold                              | No data available            |
| pH                                           | 2.0 – 4.5 at 25°C            |
| Melting point/freezing point                 | -114°C                       |
| Initial boiling point and boiling range      | 78 - 82°C                    |
| Flash point                                  | 14°C – Closed cup            |
| Evaporation rate                             | No data available            |
| Flammability (Solid, gas)                    | No data available            |
| Upper/lower flammability or explosive limits | No data available            |
| Vapour pressure                              | No data available            |
| Vapor density                                | No data available            |
| Relative density                             | No data available            |
| Water solubility                             | Insoluble                    |
| Partition coefficient: N-octanol/water       | No data available            |
| Auto-ignition temperature                    | 425°C                        |
| Decomposition temperature                    | No data available            |
| Viscosity                                    | 3.0 – 6.0cps at 25°C         |
| Explosive properties                         | No data available            |
| Oxidizing properties                         | No data available            |
| Surface tension                              | ≥ 23 mN/m at 25°C            |

|                  |                     |
|------------------|---------------------|
| Specific gravity | 0.80 – 1.00 at 25°C |
|------------------|---------------------|

Other safety information: No data available

## Section 10: Stability and reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions

Possibility of hazardous reactions: No data available

Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight

Incompatible materials: Alkali metals, ammonia, oxidizing agents, peroxides

Hazardous decomposition products: Other decomposition products – No data available. In the event of a fire: See section 5.

## Section 11: Toxicological information

Information on toxicological effects

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation result: Mild eye irritation – 24h (Draize test)

Respiratory or skin sensitisation: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity – single exposure: May cause drowsiness or dizziness

Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No data available

Additional information

RTECS: KQ6300000

Central nervous system depression, narcosis, Damage to the heart. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Heart – Irregularities – Based on Human Evidence.

## Section 12: Ecological information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: No data available

## Section 13: Disposal considerations

### Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company

#### Contaminated packaging

Dispose of as unused product.

## Section 14: Transport information

### UN Number

ADR/RID: 1993

IMDG: 1993

IATA: 1993

### UN Proper shipping name

ADR/RID: ORIMAC INK BLUE (Flammable Liquid, N.O.S.)

IMDG: ORIMAC INK BLUE (Flammable Liquid, N.O.S.)

IATA: ORIMAC INK BLUE (Flammable Liquid, N.O.S.)

### Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

### Packaging group

ADR/RID: III

IMDG: III

IATA: III

### Environmental hazards

ADR/RID: No

IMDG Marine Pollutant: No

IATA:: No

### Special precautions for user

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and regulation (EC) No 1272/2008

### Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

### Chemical safety assessment

For this product a chemical safety assessment was not carried out

## Section 16: Other information

### Full text of H-Statements referred to under section 2 and 3

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

Full text of R-phrases referred to under sections 2 and 3

R11 Highly flammable

R36 Irritating to eyes

R67 Vapours may cause drowsiness and dizziness

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