Material Safety Data Sheet

1. Product Information

Item Number: C098-004
Description: Water Based Invisible Blue Ink
Distributor: UV Process Supply, Inc
1229 W. Cortland Street
Chicago, IL 60614-4805
Emergency Phone: 800-424-9300
General Phone: 773-248-0099
Date Prepared: October 14, 2013

2. Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS#</th>
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<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
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3. Hazard Identification

Acute: This ink is generally a low hazard material

Symptoms of over-exposure: This material is generally low risk.

Inhalation: The constituents of this material are low volatility and will not normally cause inhalation problems. Inhalation of a mist of this material may cause respiratory irritation, which will be relieved upon termination of exposure.

Contact with Skin or Eyes: Some irritation may occur in sensitive individuals. Contact with the eyes will cause burning and may impair vision by staining the eye.

Ingestion: Ingestion of this material will stain the mouth and esophagus. Ingestion of large amounts will cause gastrointestinal distress. Ingestion will cause irritation of the upper gastrointestinal tract, causing difficulty in swallowing.

ACGIH: Not listed

POTENTIAL ENVIRONMENTAL EFFECTS: Not available
4. FIRST AID MEASURES

INHALATION:
If a large quantity is inhaled, remove to fresh air.

EYE:
Immediately flush eyes with water for at least 15 minutes. Seek medical attention as needed.

SKIN:
Wash with mild soap and water.

INGESTION:
Rinse mouth thoroughly with water. Induce vomiting if possible. Seek medical attention as needed.

PROTECTION TO FIRST-AID RESPONDERS:
Wear personal protective clothing and equipment.

NOTE TO PHYSICIAN:
Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES
Hazardous Combustion Products: Not available
Flash Point: Not available
Lower Flammable Limit: Not available
Upper Flammable Limit: Not available
Autoignition: Not applicable
Conditions of Flammability: Requires this product be dry.
Explosion Data:
Impact Sensitivity: Not sensitive to mechanical impact.
Static Discharge: Not sensitive to static discharge.

EXTINGUISHING MEDIA:
Use water spray, sand, foam, dry chemical, or CO2 gas.
(This product is not combustible under normal conditions due to its aqueous property.)

FIRE FIGHTING INSTRUCTIONS:
In case of fire, wear respirator.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:
Wear personal protective clothing and equipment. Ventilate area.
For small spill, soak with dry sand, soil, saw dust, or rags. Collect spilled material in container for disposal and wipe the remaining up with rag.
For large spill, dike with sandbags to prevent from contaminating soil, and collect into container with shovel or vacuum.

WATER SPILL:
Wear personal protective clothing and equipment. Ventilate area.
For small spill, soak with dry sand, soil, saw dust, or rags. Collect spilled material in container for disposal and wipe the remaining up with rag.
For large spill, dike with sandbags to prevent from entering sewers or bodies of water, and collect into container with shovel or vacuum.

7. HANDLING AND STORAGE

HANDLING:
Wear suitable protective equipment and clothing as needed to prevent the material from contacting skin and eyes. Local exhaust ventilation or general ventilation is recommended during indoor operation.

STORAGE:
Store in a cool and dark place away from direct sunlight. Avoid freezing.
Keep container tightly closed.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES: Not established.

EXPOSURE CONTROLS

Occupational Exposure Controls

Engineering Controls:

- Local exhaust ventilation or general ventilation is recommended during indoor operation.

Personal Protection

Respiratory Protection:

- Not necessary under normal handling condition.

Hand Protection:

- Wear rubber or plastic gloves.

Eye Protection:

- Wear safety glasses or chemical goggles.

Skin Protection:

- Wear long pants, long sleeves, boots, and rubber or plastic gloves when applicable.

Environmental Exposure Controls:

Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colored liquid. (represents reversible photochromism)

Odor: Odorless

pH: 7.0 ± 0.5

Boiling Point: Approx. 100°C

Melting Point: Approx. 0°C

Decomposition Temperature: Not available

Flash Point: Not available

Auto-Ignition Temperature: Not applicable

Flammability: If this product is dry, it may be flammable

Explosive Properties: Not applicable

Oxidizing Properties: Not applicable

Vapor Pressure: 23.3 hPa (25°C) (Water)

Specific Gravity (water = 1): 1.01 ± 0.05

Solubility

- Water: Not available

Partition Coefficient (n-octanol/water): Not available

Viscosity: Not available

Vapor Density: 17.3 g/m³ (20°C) (Water)

Evaporation Rate: Not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None.

STABILITY:

- Stable under recommended conditions of storage and handling.

MATERIALS TO AVOID:

- Substance that react to contact with water.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:

- None.
11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral rat LD50 (14 days) > 5,000 mg/kg
Eye Irritation: Complete recovery was observed by 24-48 hours. (Eye irritation test in rabbit)
Skin Irritation: Almost negative in SUMP method with open patch test (24 hours application).
(Testing article stained silk cotton with this product.)
Sensitization: Negative in Magnusson and Kligman test using guinea pig. (Data as photochromic compound)
Repeated Dose Toxicity: Not available.
Chronic Toxicity: Not available.
Mutagenicity: Negative in Ames test using salmonella typhimurium. (Data as photochromic compound)
Carcinogenicity: Not applicable.
Reproductive and Developmental Toxicity: Not available.

12. DISPOSAL INFORMATION
Comply with federal, state and local regulations.
Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION

US DEPARTMENT OF TRANSPORTATION (DOT)
Hazardous Materials: Not applicable.
Hazardous Materials Description and Proper Shipping Name: Not applicable
Hazard Class or Division: Not applicable
Identification Number: Not applicable
Packing Group: Not applicable
Label(s) Required: Not applicable

SEA TRANSPORT
IMDG
Class: Not applicable
Packing Group (PG): Not applicable
UN Number: Not applicable
Proper Shipping Name: Not applicable
Marine Pollutant: Not applicable

AIR TRANSPORT
ICAO/IATA
Class: Not applicable
Packing Group (PU): Not applicable
UN Number: Not applicable
Proper Shipping Name: Not applicable

14. REGULATORY INFORMATION
OSHA STATUS: This product is not considered to be hazardous under 29 CFR 1910.1200.
TSCA STATUS: All components on TSCA INVENTORY.
CERCLA REPORTABLE QUANTITY (40 CFR 117, 302):
14. REGULATORY INFORMATION  Continued

Not applicable
SARA TITLE III
Section 302 (40 CFR 355) — Extremely hazardous substance:
Not applicable.
Section 311/312 (40 CFR 370) — Hazard categories:
Not applicable.
Section 313 (40 CFR 372) — Toxic chemical:
Not applicable.
CONEG — Typical Metals present in ppm:
Cadmium (Cd) N
Hexavalent Chromium (Cr(VI)) N
Lead (Pb) N
Mercury (Hg) N
ENCS (Japan): Components listed

Please refer to any other federal, state and local regulations.
For specific questions please call to Matsui International Co., Inc. USA3 107677812.

15. OTHER INFORMATION

Warranty:
While UV Process Supply, Inc. believes the information contained herein is factually correct, this information is not to be taken as a warranty for which UV Process Supply, Inc. assumes legal responsibility. It is provided solely for consideration, investigation and verification.