1 Identification

- Product identifier
  - Trade name: ColorWright Phosphate Buffer Solution, pH 6.8
  - Article number: No other identifiers
- Recommended use: ColorWright Phosphate Buffer Solution is a clear, colorless solution designed for use with ColorWright Wright and Wright-Giemsa Hematology stains for use on the Sysmex® SP-1000i and SP-10 Automated Hematology Slide Preparation Units. This reagent is to be handled by laboratory professionals.
- Restrictions on use: No further relevant information available.

Details of the supplier of the Safety Data Sheet
- Manufactured by: Astral Diagnostics, 1224 Forest Parkway, Suite 200; West Deptford, NJ. 08066
- Distributed by: SYSMEX AMERICA, Inc, 577 Aptakisic Road Lincolnshire, IL 60069 USA
  Phone: 847-996-4500 1-800-3SYSMEX (1-800-379-7639)
- Emergency telephone number: ChemTel Inc.
  (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- Classification of the substance or mixture
  The product is not classified as hazardous according to the Globally Harmonized System (GHS).
  - Additional information: There are no other hazards not otherwise classified that have been identified. Zero percent of the mixture consists of ingredient(s) of unknown toxicity.
- Label elements
  - GHS label elements: The product is not classified as hazardous according to OSHA GHS regulations within the United States.
  - Hazard pictograms: Not Regulated
  - Signal word: Not Regulated
  - Hazard-determining components of labeling: None.
  - Hazard statements: Not Regulated
  - Precautionary statements: Not Regulated

3 Composition/information on ingredients

- Chemical characterization: Mixtures
  - Description: Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhibitor</td>
<td>6440-58-0</td>
<td>Trace</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt;99</td>
</tr>
<tr>
<td>Sodium Phosphate, Dibasic</td>
<td>7558-79-4</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Potassium Phosphate, Mono</td>
<td>7778-77-0</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

- Dangerous components: None in reportable quantities.
4 First-aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:**
    Clean with water and soap.
    If skin irritation is experienced, consult a doctor.
  - **After eye contact:**
    Remove contact lenses if worn.
    Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:**
    Rinse out mouth and then drink plenty of water.
    Do not induce vomiting; immediately call for medical help.
  - **Information for doctor:**
    - **Most important symptoms and effects, both acute and delayed**
      Slight irritant effect on skin and mucous membranes.
      Slight irritant effect on eyes.
      Gastric or intestinal disorders when ingested.
    - **Danger** No further relevant information available.
    - **Indication of any immediate medical attention and special treatment needed**
      No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
  - **For safety reasons unsuitable extinguishing agents:** None.
  - **Special hazards arising from the substance or mixture** No further relevant information available.
  - **Advice for firefighters**
  - **Protective equipment:**
    Wear self-contained respiratory protective device.
    Wear fully protective suit.
- **Additional information** No further relevant information available.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Ensure adequate ventilation.
  For large spills, wear protective clothing.
  For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:** No special measures required.
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- **Methods and material for containment and cleaning up:**
  Absorb liquid components with liquid-binding material.
  Dispose contaminated material as waste according to item 13.

- **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
  - Precautions for safe handling
    Prevent formation of aerosols.
    Use only in well ventilated areas.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**
  - Requirements to be met by storerooms and receptacles:
    Avoid storage near extreme heat, ignition sources or open flame.
  - Information about storage in one common storage facility:
    Store away from foodstuffs.
    Store away from oxidizing agents.

- **Further information about storage conditions:** Protect from heat and direct sunlight.

- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**
  - Components with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** No further relevant information available.

- **Exposure controls**
  - Personal protective equipment:
    - General protective and hygienic measures:
      The usual precautionary measures for handling chemicals should be followed.
      Keep away from foodstuffs, beverages and feed.
      Wash hands before breaks and at the end of work.
      Avoid contact with the eyes.
      Avoid close or long term contact with the skin.

- **Engineering controls:** No further relevant information available.
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- **Breathing equipment:**
  Not required under normal conditions of use.
  Use suitable respiratory protective device when aerosol or mist is formed.
  For spills, respiratory protection may be advisable.

- **Protection of hands:**
  Wear protective gloves to handle contents of damaged or leaking units.
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**
  Safety glasses

- **Body protection:**
  Not required under normal conditions of use.
  Protection may be required for spills.

- **Limitation and supervision of exposure into the environment** No special requirements.

- **Risk management measures** No special requirements.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

  - **General Information**

  - **Appearance:**
    - Form: Liquid
    - Color: Clear
  
  - **Odor:** Odorless
  
  - **Odor threshold:** Not determined.

  - **pH-value:** 7.2

  - **Change in condition**
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: 100 C, (212 F)

  - **Flash point:** Not applicable.

  - **Flammability (solid, gaseous):** Not applicable.

  - **Auto-ignition temperature:** Not determined.

  - **Decomposition temperature:** Not determined.

  - **Autoigniting:** Product is not self-igniting.

  - **Danger of explosion:** Product does not present an explosion hazard.
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(Contd. of page 4)

- Explosion limits:
  - Lower: Not determined.
  - Upper: Not determined.
- Oxidizing properties: Non-oxidizing.
- Vapor pressure: Not determined.
- Density: Not determined.
  - Relative density: 1
  - Vapour density: Not determined.
  - Evaporation rate: 0.36 (water)
- Solubility in / Miscibility with:
  - Water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability
  - Thermal decomposition / conditions to be avoided:
    No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: Keep away from heat and direct sunlight.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Possible in traces.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification: None.
  - Primary irritant effect:
    - on the skin: Slight irritant effect on skin and mucous membranes.
    - on the eye: Slight irritant effect on eyes.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
  The product is not subject to classification according to internally approved calculation methods for preparations.

(Contd. on page 6)
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

<table>
<thead>
<tr>
<th>Carcinogenic categories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IARC (International Agency for Research on Cancer)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>NTP (National Toxicology Program)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>OSHA-Ca (Occupational Safety &amp; Health Administration)</strong></td>
</tr>
<tr>
<td>None of the ingredients is listed.</td>
</tr>
</tbody>
</table>

- **Probable Routes of Exposure**
  - Ingestion.
  - Inhalation.
  - Eye contact.
  - Skin contact.

- **Repeated Dose Toxicity:** No further relevant information available.

- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):**
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**
  - **Bioaccumulative potential** No further relevant information available.
  - **Mobility in soil** No further relevant information available.

- **Additional ecological information:**
  - **General notes:** Generally not hazardous for water
  - **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

**Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- **UN-Number**
  - DOT, ADN, IMDG, IATA: Not Regulated
  - UN proper shipping name: Not Regulated

- **Transport hazard class(es)**
  - DOT, ADN, IMDG, IATA: Not Regulated

- **DOT, ADN, IMDG, IATA**
  - Class: Not Regulated
  - Packing group: Not Regulated

- **Environmental hazards:**
  - Marine pollutant: No
  - Special precautions for user: Not applicable.
  - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**
  - **Section 355 (extremely hazardous substances):**
    None of the ingredients is listed.
  - **Section 313 (Specific toxic chemical listings):**
    None of the ingredients are listed.
  - **TSCA (Toxic Substances Control Act):**
    All ingredients are listed.
Trade name: ColorWright Phosphate Buffer, pH 6.8

- Proposition 65 (California)
  - Chemicals known to cause cancer:
    None of the ingredients are listed.
  - Chemicals known to cause reproductive toxicity for females:
    None of the ingredients are 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.

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    None of the ingredients is listed.
  - NIOSH-Ca (National Institute for Occupational Safety and Health)
    None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision 03/02/2016

- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

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