Safety Data Sheet
acc. to OSHA HCS (29 CFR 1910.1200)

1 Identification

· Product identifier
  · Trade name: ColorWright Wright-Giemsa Stain
  · CAS Number:
    67-56-1, 68988-92-1
  · Recommended use: Romanowsky stains such as Wright and Wright-Giemsa are used to stain peripheral blood films. ColorWright stains are intended for use on the Sysmex ® SP-1000i and SP-10 Automated Hematology Slide Preparation Units. This reagent is to be handled by laboratory professionals or appropriately trained personnel.

· 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.
  +1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture
  Flam. Liq. 2 H225 Highly flammable liquid and vapor.
  Acute Tox. 3 H301 Toxic if swallowed.
  Acute Tox. 3 H311 Toxic in contact with skin.
  Acute Tox. 3 H331 Toxic if inhaled.
  Eye Irrit. 2B H320 Causes eye irritation.
  STOT SE 1 H370 Causes damage to the nervous system and optic nerve.

· Label elements
  · GHS label elements
    The substance is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms:
    - GHS02
    - GHS06
    - GHS08

· Signal word: Danger

(Cont'd. on page 2)
Trade name: ColorWright Wright-Giemsa Stain

- Hazard-determining components of labeling:
  - methanol

- Hazard statements:
  - H225 Highly flammable liquid and vapor.
  - H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
  - H320 Causes eye irritation.
  - H370 Causes damage to the nervous system and optic nerve.
  - H336 May cause drowsiness or dizziness.

- Precautionary statements:
  - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - P260 Do not breathe mist/vapors/spray.
  - P264 Wash thoroughly after handling.
  - P280 Wear protective gloves / eye protection / face protection.
  - P233 Keep container tightly closed.
  - P270 Do not eat, drink or smoke when using this product.
  - P271 Use only outdoors or in a well-ventilated area.
  - P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P312 Call a POISON CENTER/doctor if you feel unwell.
  - P337+P313 If eye irritation persists: Get medical advice/attention.
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
  - P330 Rinse mouth.
  - P370+P378 In case of fire: Use for extinction: Water.
  - P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
  - P405 Store locked up.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Other hazards
  There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

- Chemical characterization: Substances
  - CAS No. Description
    - 67-56-1 methanol 100%, 68988-92-1 Wright Stain <1%, 51811-82-6 Giemsa Stain <1%
4 First-aid measures

- Description of first aid measures
  - After inhalation:
    Supply fresh air; consult doctor in case of complaints.
    Provide oxygen treatment if affected person has difficulty breathing.
    In case of irregular breathing or respiratory arrest provide artificial respiration.
  - After skin contact:
    Immediately remove any clothing soiled by the product.
    Immediately wash with water and soap and rinse thoroughly.
    If skin irritation continues, consult a doctor.
    Seek immediate medical help for blistering or open wounds.
  - After eye contact:
    Remove contact lenses if worn.
    Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing:
    Rinse out mouth and then drink plenty of water.
    Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed:
  Headache
  Caustic effect on skin and mucous membranes.
  Danger of severe eye injury.
  Nausea
  Dizziness
  Breathing difficulty
  Coughing
  Gastric or intestinal disorders
  Blindness
  Acidosis
  Disorientation
  Unconsciousness
- Danger:
  Causes severe skin burns and eye damage.
  Danger of convulsion.
  Toxic if swallowed, in contact with skin or if inhaled.
  Causes damage to the nervous system and optic nerve.
  Danger of disturbed cardiac rhythm.
- Indication of any immediate medical attention and special treatment needed:
  Contains methanol. Consult literature for specific antidotes.
  May produce a neurotoxic effect.
  Medical supervision for at least 48 hours.
  If necessary oxygen respiration treatment.
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Contains cobalt acetate. May produce an allergic reaction.

5 Fire-fighting measures

· Extinguishing media
  · Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  · For safety reasons unsuitable extinguishing agents: None.
· Special hazards arising from the substance or mixture
  Highly flammable liquid and vapor.
  Formation of toxic gases is possible during heating or in case of fire.
· Advice for firefighters
  · Protective equipment: Wear self-contained respiratory protective device.
  · Wear fully protective suit.
  · Additional information: Eliminate all ignition sources if safe to do so.
  · Use large quantities of foam as it is partially destroyed by the product.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures:
  · Use respiratory protective device against the effects of fumes/dust/aerosol.
  · Wear protective equipment. Keep unprotected persons away.
  · Ensure adequate ventilation.
  · Keep away from ignition sources.
  · Protect from heat.
· Environmental precautions:
  · Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  · Inform respective authorities in case of seepage into water course or sewage system.
· Methods and material for containment and cleaning up:
  · Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
  · Send for recovery or disposal in suitable receptacles.
· Reference to other sections:
  · See Section 7 for information on safe handling.
  · See Section 8 for information on personal protection equipment.
7 Handling and storage

- Handling
  - Precautions for safe handling:
    Use only in well ventilated areas.
    Avoid splashes or spray in enclosed areas.
    Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.

- Conditions for safe storage, including any incompatibilities

- Storage
  - Requirements to be met by storerooms and receptacles:
    Store in a cool location.
    Provide ventilation for 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: Keep containers tightly sealed.
  - Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

- Control parameters
  - Components with limit values that require monitoring at the workplace:
    The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
    At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>methanol</th>
<th>PEL (USA)</th>
<th>Long-term value: 260 mg/m³, 200 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>REL (USA)</td>
<td>Short-term value: 325 mg/m³, 250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long-term value: 260 mg/m³, 200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin</td>
</tr>
</tbody>
</table>

(Cont'd. on page 6)
### TLV (USA)
- **Short-term value**: 328 mg/m³, 250 ppm
- **Long-term value**: 262 mg/m³, 200 ppm

### Skin
- **BEI**
- **Short-term value**: 250 ppm
- **Long-term value**: 200 ppm

### EL (Canada)
- **Short-term value**: 250 ppm
- **Long-term value**: 200 ppm

### EV (Canada)
- **Short-term value**: 325 mg/m³, 250 ppm
- **Long-term value**: 260 mg/m³, 200 ppm

### LMPE (Mexico)
- **Short-term value**: 250 ppm
- **Long-term value**: 200 ppm

### PIEL, IBE

#### Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>BEI (USA)</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>15 mg/L</td>
<td>urine</td>
<td>end of shift</td>
<td>Methanol (background, nonspecific)</td>
</tr>
</tbody>
</table>

#### 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.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - Avoid contact with the eyes and skin.
  - Do not inhale gases / fumes / aerosols.
- **Engineering controls:**
  - Provide adequate ventilation.
  - Keep container tightly closed.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- **Breathing equipment:**
  - Not required under normal conditions of use.
  - For spills, respiratory protection may be advisable.
  - Use suitable respiratory protective device when aerosol or mist is formed.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection:

Safety glasses

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment

No relevant information available.

Risk management measures See Section 7 for additional information.

9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance:

- Form: Liquid
- Color: Colorless
- Odor: Alcohol-like
- Odor threshold: 100 PPM
- pH-value: ~6 to 7
- Melting point/Melting range: Not determined.
- Boiling point/Boiling range: 64.5 °C (148 °F)
- Flash point: 10-15 °C (50-59 °F)
- Flammability (solid, gaseous): Not applicable.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Auto igniting: Not determined.
- Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.

Explosion limits

Lower: 6 %
10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
  - **Thermal decomposition / conditions to be avoided:**
    No decomposition if used and stored according to specifications.
  - **Possibility of hazardous reactions:**
    Toxic fumes may be released if heated above the decomposition point.
    Reacts violently with oxidizing agents.
    Highly flammable liquid and vapor.
    Used empty containers may contain product gases which form explosive mixtures with air.
    Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
- **Conditions to avoid:**
  - Keep away from heat and direct sunlight.
  - Keep ignition sources away - Do not smoke.
  - Store away from oxidizing agents.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**
  Carbon monoxide and carbon dioxide
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification: None.
  - Primary irritant effect:
    - On the skin: Based on available data, the classification criteria are not met.
    - On the eye: Causes eye irritation.
  - Sensitization: Based on available data, the classification criteria are not met.
  - Carcinogenic categories:
    - IARC (International Agency for Research on Cancer):
      Substance is not listed.
    - NTP (National Toxicology Program):
      Substance is not listed.
    - OSHA-Ca (Occupational Safety & Health Administration):
      Substance is not listed.
  - Acute effects (acute toxicity, irritation and corrosivity):
    Irritating to eyes.
    Vapors have narcotic effect.
    Toxic if swallowed, in contact with skin or if inhaled.
    Causes damage to the nervous system and optic nerve.
  - 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:
      Causes damage to the nervous system and optic nerve.
      May cause drowsiness or dizziness.
    - 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 relevant information available.
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- Persistence and degradability: No relevant information available.
- Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
  - General notes:
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Other adverse effects: No relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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. Residual materials should be treated as hazardous. Incinerate in accordance with local, state and federal regulations.

- 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, ADR, IMDG, IATA: UN1230

- UN proper shipping name
  - Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 1 L (0.3 gal).
  - DOT: Methanol
  - ADR: 1230 METHANOL
  - IMDG, IATA: METHANOL
### Transport hazard class(es)

**DOT**
- **Class:** 3 Flammable liquids
- **Label:** 3

**ADR**
- **Class:** 3 (FT1) Flammable liquids
- **Label:** 3+6.1

**IMDG, IATA**
- **Class:** 3 Flammable liquids
- **Label:** 3+6.1

**Packing group**
- **DOT, ADR, IMDG, IATA:** II

**Environmental hazards**
- **Marine pollutant:** No

**Special precautions for user**
- **Warning:** Flammable liquids
- **Danger code (Kemler):** 336
- **EMS Number:** F-E,S-D

**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 302 (extremely hazardous substances):** Substance is not listed.
    - **Section 304 (emergency release notification):** Substance is not listed.
    - **Sections 311/312 (hazardous chemical threshold planning quantity in pounds):** Substance is not listed.
    - **Section 355 (extremely hazardous substances):** Substance is not listed.
    - **Section 313 (Specific toxic chemical listings):** Substance is listed.
    - **TSCA (Toxic Substances Control Act)**
      - Substance is listed.
  - **Proposition 65 (California)** This product contains methanol, a chemical known to the state of CA to cause birth defects or reproductive harm.

- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** 67-56-1 | methanol

- **Carcinogenic categories**
  - **EPA (Environmental Protection Agency):** Substance is not listed.
  - **IARC (International Agency for Research on Cancer):** Substance is not listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health):** Substance is not listed.
Trade name: ColorWright Wright-Giemsa Stain

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 02/25/2016 / -

Abbreviations and acronyms:
ADR: 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
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Acute Tox. 3: Acute toxicity, Hazard Category 3
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

Sources
Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Safety Data Sheets, Individual Manufacturers
SDS Prepared by:
ChemTel Inc.
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