1. IDENTIFICATION

Product Identifier: Kinyoun Carbol Fuchsin

Product Code(s): J0326ASD1

Synonyms: Mixture.

Recommended Use: For invitro veterinary use only.

Uses Advised Against: Not for use on humans.

Supplier: Jorgensen Laboratories
1450 Van Buren Avenue, Loveland, CO 80538
Phone: (970) 669-2500 or (800) 525-5614 Fax: (970) 663-5042

Emergency Phone Number: U.S. and Canada: (800) 535-5053 International: (352) 323-3500 (INFOTRAC)

2. HAZARDS IDENTIFICATION

Hazard Classifications:
- Acute Toxicity – Inhalation: Category 4
- Skin Corrosion/Irritation: Category 1B
- Eye Damage/Irritation: Category 1
- Germ Cell Mutagenicity: Category 2
- Specific Target Organ Toxicity (Repeated Exposure): Category 2
- Flammable Liquids: Category 3

Signal Word: DANGER

Hazard Statements:
- Harmful if inhaled.
- Causes severe skin burns and serious eye damage.
- Suspected of causing genetic defects.
- May cause damage to organs though prolonged or repeated exposure.
- Flammable liquid and vapor.

Pictograms:

Precautionary Statements:

Prevention: Do not breathe fumes, mists, vapors, or spray.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, and face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
Keep container tightly closed.
Ground container and receiving equipment.
Use explosion-proof electrical, ventilating, lighting, and transportation equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

**Response:**
Immediately call a poison center or doctor.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
Wash contaminated clothing before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical attention.
In case of fire: Use water spray, dry powder, alcohol resistant foam, or carbon dioxide to extinguish.

**Storage:**
Store locked up.
Store in a well-ventilated place. Keep cool.

**Disposal:**
Disposal of contents and container in accordance with local, regional, national, and international regulations.

**Hazards Not Otherwise Classified:**
Hazardous to aquatic life with long-lasting effects. Avoid release to the environment.

**Toxicity Statement:**
This product contains >1% ingredients whose acute toxicity is unknown.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Common Name / Synonyms</th>
<th>CAS#</th>
<th>Chemical Formula</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Water</td>
<td>7732-18-5</td>
<td>H₂O</td>
<td>65 – 84</td>
</tr>
<tr>
<td>Ethanol</td>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>C₂H₅OH</td>
<td>10 – 20</td>
</tr>
<tr>
<td>Phenol</td>
<td>Hydroxybenzene</td>
<td>108-95-2</td>
<td>C₆H₆O</td>
<td>5 – 10</td>
</tr>
<tr>
<td>Basic Fuchsin</td>
<td>Basic Red 9</td>
<td>569-61-9</td>
<td>C₁₉H₁₇N₃ • HCl</td>
<td>1 – 5</td>
</tr>
</tbody>
</table>

**Trade Secret Statement:**
Not applicable.

### 4. FIRST AID MEASURES

**First Aid Procedures:**

**Inhalation:**
Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious, or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediately call a poison center or doctor.
Ingestion: Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor.

Skin Contact: Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Immediately call a poison center or doctor.

Eye Contact: Check for and remove contact lenses if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Immediately call a poison center or doctor.

General Advice: Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Irritation, burns, dermatitis, nausea, vomiting, diarrhea, abdominal pain, coughing, shortness of breath, nervous system effects, circulatory collapse, tachypnea, convulsions, necrosis, jaundice, respiratory failure, narcosis. Harmful if swallowed. May cause irritation or burns to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the nervous system, respiratory system, and circulatory system. Prolonged or repeated exposure may cause damage to the kidneys, liver, bladder, brain, endocrine system, and immune system.

Immediate Medical Care/ 
Special Treatment: Immediately call a poison center or doctor. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

Hazardous Combustion Products: Carbon oxides, toxic fumes.

Specific Hazards: Flammable. Vapors may cause flash fire or ignite explosively. Burns if ignited by heat, sparks, or flames. Material may burn with an invisible flame. Sealed containers may explode when heated or involved in fire. Material is sensitive to static discharge. Vapors may travel considerable distance to source of ignition and flash back. Vapor from the solvent may accumulate in container headspace, resulting in flammability hazard.

Special Protective Equipment/ Precautions for Firefighters: As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. Use water spray to cool unopened containers. Move containers from fire area, if you can do so without risk. This material may evaporate and leave a flammable residue if spilled. In the event of fire and/or explosion, do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Keep out of low areas. Wear appropriate personal protective equipment (see Section 8). Remove all sources of ignition. Avoid contact with eyes, skin, and clothing.

Emergency Procedures: In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).
Methods for Containment: Eliminate all sources of ignition. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material where possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup: Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a noncombustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be dissolved with alcohol or acetone solution. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Do not handle near open flame, sources of heat, or sources of ignition. Wear personal protective equipment (see Section 8). Use only in well-ventilated areas. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:

Water: No information found.

Ethanol: ACGIH: STEL: 1000 ppm
OSHA: PEL: 1000 ppm
1900 mg/m³

Phenol: ACGIH: TLV: 5 mg/m³
OSHA: PEL: 19 mg/m³
NIOSH: CEIL: 60 mg/m³

Basic Fuchsin: No information found.

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or safety goggles. Wear a face shield. Maintain approved eye wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to
exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Specific Requirements for Personal Protective Equipment:
Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance: Red, opaque liquid.
Odor: Mild, phenolic.
Odor Threshold: No information found.
Formula Weight: Mixture.
pH: No information found.
Melting/Freezing Point: No information found.
Boiling Point/Range: No information found.
 Decomposition Temperature: No information found.
Flash Point: 43.3 °C (estimated)
Auto-ignition Temperature: Not applicable.
Flammability: Flammable liquid and vapor.
Flammability/Explosive Limits: No information found.
Solubility: Miscible with water.
Vapor Pressure: No information found.
Vapor Density: No information found.
Specific Gravity: 0.990 (Water = 1)
Evaporation Rate: No information found.
Viscosity: No information found.
Partition Coefficient (n-octanol/water): No information found.

10. STABILITY AND REACTIVITY

Reactivity Data: Flammable. See Section 9.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Heat, flames, sparks, incompatible materials.
Incompatible Materials: Oxidizing agents, strong acids.
Hazardous Decomposition Products: Carbon oxides, toxic fumes.
Possibility of Hazardous Reactions: May react vigorously, violently, or explosively if exposed to extreme thermal conditions or if contacted with the incompatible materials listed above.
11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact.

Acute Effects: Harmful if swallowed, inhaled, or absorbed through skin. May cause irritation or burns to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the respiratory system and circulatory system.

Chronic Effects: Prolonged or repeated exposure may cause damage to the kidneys, liver, bladder, brain, endocrine system, and immune system.

Toxicological Data:

- Ethanol: LD\text{50} Oral, Rat: 7060 mg/kg  
  LC\text{50} Inhalation, Rat: 124.7 mg/L 4 h

- Phenol:  
  LD\text{50} Oral, Rat: 317 mg/kg  
  LD\text{50} Dermal, Rabbit: 630 mg/kg  
  LD\text{50} Inhalation, Rat: 0.316 mg/L 4 h  
  Causes severe skin and eye irritation based on animal data.  
  May cause mutagenic effects based on animal data.

- Basic Fuchsin: No information found.

Symptoms of Exposure: Irritation, burns, dermatitis, nausea, vomiting, diarrhea, abdominal pain, coughing, shortness of breath, nervous system effects, circulatory collapse, tachypnea, convulsions, necrosis, jaundice, respiratory failure, narcosis.

Carcinogenic Effects: No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

- IARC: Phenol: 3 – Not classifiable as to its carcinogenicity to humans.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:

- Ethanol:  
  EC\text{50}, Water Flea (Daphnia magna): 7.7 mg/L 48 h  
  LC\text{50}, Fathead Minnow (Pimephales promelas): > 100 mg/L 96 h

- Phenol: No information found.

- Basic Fuchsin: No information found.

Persistence and Degradability: May not be readily biodegradable.

Environmental Effects: Hazardous to aquatic life and groundwater resources with long-lasting effects. Avoid release to the environment.
13. DISPOSAL INFORMATION

Disposal Instructions: All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8).

Contaminated Packaging: Because emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: D002: Waste Corrosive Material (pH ≤ 2 or pH ≥12.5 or corrosive to steel)

14. TRANSPORT INFORMATION

DOT:

UN Number: UN2924

Proper Shipping Name: Flammable liquids, corrosive (Ethanol, Phenol)

Hazard Class: 3, 8

Packing Group: III

ERG Number: 132

Environmental Hazard Regulations: No information found.

Other Transport Precautions: No information found.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>List (Yes/No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section 311 – Hazardous Chemical</td>
<td>Yes</td>
</tr>
<tr>
<td>Immediate Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

Section 313: Phenol: 1000 lb

CERCLA Reportable Quantities: No information found.
Canada WHMIS: This SDS is prepared in compliance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Therefore, it complies with the 2015 Workplace Hazardous Materials Information System (WHMIS) as well.

International Inventories:

<table>
<thead>
<tr>
<th>Country or Region</th>
<th>Inventory Name</th>
<th>On Inventory (Yes/No)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that the listed components of this product comply with the inventory requirements administered by the governing country or region.

16. OTHER INFORMATION

Disclaimer: Jorgensen Laboratories provides the information in this Safety Data Sheet in the belief that it is reliable but assumes no responsibility for its completeness or accuracy. The physical properties reported in this SDS are obtained from literature and do not constitute product specifications. Jorgensen Laboratories makes and gives no representations or warranties with respect to the information contained herein or the product to which it refers, whether express, implied, or statutory, including without limitation, warranties of accuracy, completeness, merchantability, non-infringement, performance, safety, suitability, stability, and fitness for a particular purpose. No warranty against infringement of any patent, copyright or trademark is made or implied. This SDS is intended only as a guide to the appropriate handling of the material by a properly trained person. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. Accordingly, Jorgensen Laboratories assumes no liability whatsoever for the use of or reliance upon this information including results obtained, incidental or consequential damages, or lost profits.

Issue Date: October 6, 2016

Reason for Revision: Update of Sections 8, 9, 11, 12, and 15 over 02/24/2015 version.