Section 1 – Product and Company Information

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Urine Reagent Strips 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Numbers</td>
<td>URS-5K, URS-OBGYN</td>
</tr>
<tr>
<td>Product Type</td>
<td>Urine Reagent Strips</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company Name</th>
<th>LW Scientific, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address</td>
<td>865 Marathon Parkway</td>
</tr>
<tr>
<td>City, State, Zip Code, Country</td>
<td>Lawrenceville, GA 30046</td>
</tr>
</tbody>
</table>

Recommended Use: For In Vitro Diagnostic Use Only

Section 2 – Hazard(s) Identification

Classification: This material is not classified as hazardous according to the OSHA Hazard Communication Standard (21 CFR 1910.1200).

Emergency Overview:
When the recommended instructions for use are followed, the product is not expected to produce significant adverse health effects. There are no known significant effects or critical hazards; however, appropriate safety precautions should still be taken. Avoid contact with eyes and skin.

Acute health effects: No known significant effects or critical hazards have been identified.

Chronic health effects: No known significant effects or critical hazards have been identified.

For additional information on toxicity, please refer to section 11.

Section 3 – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Chemical Concentration or % (Based on dried weight at time of impregnation)</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood Test: (for URS-5K and URS-OBGYN)</td>
<td>Mixture</td>
<td>6.6% w/w cumene hydroperoxide, 4.0% w/w 3,3’,5, 5’-tetramethyl benzidine, with buffer and non-reactive ingredients</td>
<td>80-15-9, 54827-17-7</td>
</tr>
<tr>
<td>Glucose Test: (for URS-5K and URS-OBGYN)</td>
<td>Mixture</td>
<td>16.3% w/w glucose oxidase (Aspergillus niger, 1.3IU), 0.6% w/w peroxidase (horseradish, 3300 IU), 7.0% w/w potassium iodide, with buffer and non-reactive ingredients</td>
<td>9001-37-0, 9003-99-0, 7684-11-0</td>
</tr>
<tr>
<td>Ketone Test: (for URS-5K)</td>
<td>Mixture</td>
<td>7.7% w/w sodium nitroprusside with buffer and non-reactive ingredients</td>
<td>13755-38-9</td>
</tr>
<tr>
<td>Leukocyte Test: (for URS-OBGYN)</td>
<td>Mixture</td>
<td>0.4% w/w indoxyl ester derivative, 0.2% w/w diazonium salt, with buffer and non-reactive ingredients</td>
<td>99740-00-8, 887-76-3</td>
</tr>
<tr>
<td>Nitrite Test: (for URS-OBGYN)</td>
<td>Mixture</td>
<td>1.4% w/w p-arsanilic acid</td>
<td>98-50-0</td>
</tr>
<tr>
<td>pH Test: (for URS-5K)</td>
<td>Mixture</td>
<td>0.2% w/w methyl red, 2.8% w/w bromothymol blue sodium salt</td>
<td>845-10-3, 34722-90-2</td>
</tr>
<tr>
<td>Protein Test: (for URS-5K and URS-OBGYN)</td>
<td>Mixture</td>
<td>0.3% w/w tetrabromophenol blue</td>
<td>108321-10-4</td>
</tr>
</tbody>
</table>

Section 4 – First Aid Measures

Ingestion
If victim is conscious and alert, wash out their mouth with water, and then give 2 to 4 cups of water. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation
Move exposed person to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Skin Contact
Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse. Get medical attention if irritation occurs.
Eye Contact
Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

Section 5 - Fire and Explosive Hazard Data

Extinguishing Media
Suitable: Use water spray, foam, or dry chemical.
Unsuitable: None known

Specific Hazards: No known hazardous combustion products.

Special protective equipment and precautions for fire-fighters
Wear self-contained breathing apparatus and appropriate protective clothing for firefighting.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Wear proper personal protective equipment (PPE) as indicated in section 8. Exercise appropriate precautions to avoid contact with skin or eyes and prevent inhalation.

Methods and materials for containment and cleaning up
Vacuum or sweep material and place into a suitable waste container. Dispose of in accordance with federal, state, and local regulations.

Section 7 - Handling and Storage

Handling
Wear appropriate personal protective equipment (PPE) as indicated in section 8.
Avoid contact with eyes, skin, and clothing. Avoid inhalation or ingestion.

Storage
Store at 15-30°C in the original container and protect from sunlight. Keep container closed when not in use.

Section 8 - Exposure Controls / PPE

Components with workplace control parameters
The product contains no components with occupational exposure limit values.

Engineering Controls
No special ventilation requirements. Good general ventilation is sufficient.

Personal Protective Equipment
Respiratory Protection: Respiratory protective equipment is not required where adequately ventilated.
Hand Protection: Wear chemical-resistant, impervious gloves
Eye Protection: Safety glasses with side shields recommended.
Protective Clothing: Wear a lab coat.
Other protective equipment: Ensure the eyewash station and/or safety shower/wash is located near the work area.

General Hygiene Measures
Handle in accordance with good industrial hygiene practice. After handling the product, remove gloves using proper glove removal technique (without touching outer surface of glove), and dispose gloves according to applicable laws and good laboratory practices. Wash hands thoroughly. Also wash hands before eating, smoking, using the lavatory, and at end of the work period.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>5 small, multicolored reagent test pads on a white plastic strip</td>
</tr>
<tr>
<td>Odor</td>
<td>N/A</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Section 10 – Stability and Reactivity

Reactivity
Reacts with urine and possibly with other bodily fluids

Chemical stability
Stable under recommended storage conditions as indicated in section 7.

Possibility of hazardous reactions
No information available

Conditions to avoid
Avoid high temperature, high humidity conditions

Incompatible materials
No information available

Hazardous decomposition products
No information available

Section 11- Toxicological Information

Route of Entry/Exposure
Skin contact, eye contact

Effects of acute exposure

Skin contact
May cause irritation.

Eye contact
May cause irritation.

Ingestion
May be harmful if ingested.

Inhalation
May cause irritation to mucous membranes and upper respiratory tract.

Effects of chronic exposure
No information available

Toxicity:

<table>
<thead>
<tr>
<th>Component</th>
<th>Chemical</th>
<th>Acute Toxicity</th>
<th>Chronic Toxicity</th>
<th>Other Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood Test: (for URS-5K and URS-OBGYN)</td>
<td>Cumene hydroperoxide, 3, 3', 5, 5'-tetramethylbenzidine</td>
<td>LD50 Oral –rat 382 mg/kg, LD50 Oral –other &gt;316 mg/kg</td>
<td>No information available</td>
<td>RTECS: MX2450000, RTECS: DV2300000</td>
</tr>
<tr>
<td>Glucose Test: (for URS-5K and URS-OBGYN)</td>
<td>Glucose oxidase, Peroxidase, Potassium iodide</td>
<td>LD50 Intra peritoneal-mouse 3 mg/kg, No information available, No information available</td>
<td>No information available</td>
<td>RTECS: RQ8452000, RTECS: Not available, RTECS: TT2975000</td>
</tr>
<tr>
<td>Ketone Test: (for URS-5K)</td>
<td>Sodium nitroprusside</td>
<td>LD50 Oral –rat 99 mg/kg</td>
<td>No information available</td>
<td>RTECS: LJ8925000</td>
</tr>
<tr>
<td>Leukocyte Test: (for URS-OBGYN)</td>
<td>Indoxyl ester derivative, Diazonium salt</td>
<td>No information available, No information available</td>
<td>No information available</td>
<td>RTECS: Not available, RTECS: Not available</td>
</tr>
<tr>
<td>Nitrite Test: (for URS-OBGYN)</td>
<td>p-Arsanilic acid</td>
<td>LD50 Oral –rat 1000 mg/kg</td>
<td>No information available</td>
<td>RTECS: CF7875000</td>
</tr>
</tbody>
</table>
## Carcinogenicity

<table>
<thead>
<tr>
<th>Source</th>
<th>URS-5K</th>
<th>URS-OBGYN</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC</td>
<td>No component present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</td>
<td>Arsanilic acid: Group 1 Carcinogenic to humans</td>
</tr>
<tr>
<td>ACGIH</td>
<td>No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</td>
<td>Arsanilic acid: Known to be human carcinogen</td>
</tr>
<tr>
<td>NTP</td>
<td>No component present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</td>
<td>Arsanilic acid: Known to be human carcinogen</td>
</tr>
<tr>
<td>OSHA</td>
<td>No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</td>
<td>Arsanilic acid: OSHA specifically regulated carcinogen</td>
</tr>
</tbody>
</table>

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## Section 12 – Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>No information available</th>
<th>Mobility in soil</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
<td>No information available</td>
<td>Other adverse effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Bio-accumulative potential</td>
<td>No information available</td>
<td>Water hazard class</td>
<td>No information available</td>
</tr>
</tbody>
</table>

## Section 13 – Disposal Considerations

### Waste residues and methods of disposal

This product has to be disposed in accordance with applicable regional, national and local laws and regulations. Surplus and non-recyclable components should be taken to a licensed waste disposal contractor for disposal.

### Contaminated Packaging

Waste packaging should be recycled; however, since empty containers may retain some product residues, they should be taken to an approved waste handling site or given to a licensed waste disposal contractor for recycling or disposal, if recycling is not possible.

## Section 14 – Transport Information

<table>
<thead>
<tr>
<th>UN Number</th>
<th>None. Not regulated.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Proper shipping name</td>
<td>None. Not regulated.</td>
</tr>
<tr>
<td>Transport hazard class</td>
<td>Not classified as hazardous. Not regulated.</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental hazard</td>
<td>No information available</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>Not applicable</td>
</tr>
<tr>
<td>DOT (USA)</td>
<td>Not dangerous goods. Non-hazardous for transport.</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not dangerous goods. Non-hazardous for maritime transport.</td>
</tr>
<tr>
<td>IATA</td>
<td>Not dangerous goods. Non-hazardous for air transport.</td>
</tr>
<tr>
<td>Special precautions</td>
<td>None</td>
</tr>
</tbody>
</table>

## Section 15 – Regulatory Information

### United States

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
HCS Classification | Not regulated
---|---
U.S Federal Regulations
TSCA 8(a) CDR Exempt/Partial exemption: | Not determined
United States inventory TSCA 8(b): | Not determined
SARA 304 Extremely Hazardous Substances Reportable Quantity: | The product does not contain any components with a section 304 EHS RQ.
SARA 311/312 Hazards Identification: | Not regulated
Clean Water Act (CWA) 307: | This product does not contain any toxic pollutants listed under the U.S. Clean Water Act section 307.
Clean Water Act (CWA) 311: | This product does not contain any hazardous substances listed under the U.S. Clean Water Act section 311.
Clean Air Act (CAA) 112 accidental release prevention: | No products were found

| U.S. State Regulations | Component | CAS No.
---|---|---
Massachusetts Right to Know: | Cumene hydroperoxide (for URS-5K and URS-OBGYN) | 80-15-9
Pennsylvania Right to Know: | Cumene hydroperoxide (for URS-5K and URS-OBGYN), 3,3′, 5, 5′-tetramethylbenzidine (for URS-5K and URS-OBGYN), Sodium nitroferricyanide(III) dihydrate [Sodium nitroprusside] (for URS-5K), 4,4′-Azo-3-hydroxynaphthalene-1-sulphonate [Diazonium salt] (for URS-OBGYN) Arsanilic acid (for URS-OBGYN), Sodium 2-(p-(dimethylamino)phenylazo)benzoate [M ethyl red] (for URS-5K), Bromothymol Blue sodium salt (for URS-5K), Tetrabromophenol Blue sodium salt (for URS-5K and URS-OBGYN) | 80-15-9, 54824-17-7, 13755-38-9, 887-76-3, 98-50-0, 845-10-3, 34722-90-2, 108321-10-4
New Jersey Right to Know: | Cumene hydroperoxide (for URS-5K and URS-OBGYN), 3,3′, 5, 5′-tetramethylbenzidine (for URS-5K and URS-OBGYN), Sodium nitroferricyanide(III) dihydrate [Sodium nitroprusside] (for URS-5K), 4,4′-Azo-3-hydroxynaphthalene-1-sulphonate [Diazonium salt] (for URS-OBGYN) Arsanilic acid (for URS-OBGYN), Sodium 2-(p-(dimethylamino)phenylazo)benzoate [M ethyl red] (for URS-5K), Bromothymol Blue sodium salt (for URS-5K), Tetrabromophenol Blue sodium salt (for URS-5K and URS-OBGYN) | 80-15-9, 54824-17-7, 13755-38-9, 887-76-3, 98-50-0, 845-10-3, 34722-90-2, 108321-10-4

Section 15 – Regulatory Information (continued)

| U.S. State Regulations | Component | CAS No.
---|---|---
California Prop. 65 | URS-5K: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm. URS-OBGYN: Warning! This product contains a chemical known to the State of California to cause cancer. Arsanilic acid CAS No. 98-50-0 | Exempt
Canadian WHMIS: | Not Applicable or Not Available | Exempt
Note: The regulatory information above is based on the information available for the pure product ingredients, not the finished product.

Section 16 – Other Information
This product is labeled in accordance with CFR21 (Food and Drugs), Section 809.10.
The information contained herein has been compiled from data presented in various technical sources believed to be accurate.
We make no warranties, express or implied, and assume no liability in connection with the use of this information.
It is the user’s responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.

N/A = Not Applicable or Not Available
Date of SDS Preparation: 07/01/2015