1. IDENTIFICATION

Product Identifier Sulfathiazole sodium
Distributor Name TOKU-E Company
Distributor Address 715 W Orchard Dr, Suite 3
                  Bellingham, WA 98225
Phone Number (360) 734-1789
Emergency Phone Number +1 (352) 323-3500
(International)
Emergency Phone Number (US only) 1 (800) 535-5053
Safety Data Sheet Issued by TOKU-E USA
CAS-No. [144-74-1]
EC/ REACH Number [205-638-5]
Recommended Use Broad spectrum antibiotic targeting a wide range of gram positive and gram negative bacteria
Restrictions on Use Not for human or animal use

2. HAZARD(S) IDENTIFICATION

GHS Classification Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

GHS Label Elements, Including Precautionary statements

Signal word: Warning
Hazard Statements

H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Precautionary Statements

P261: Avoid breathing dust/fume/gas/mist/vapors/spray
P264: Wash skin thoroughly after handling
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/eye protection/face protection
P302 + P352: IF ON SKIN: Wash with plenty of soap and water
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P321: Specific treatment
P332 + P313: If skin irritation occurs: Get medical advice/attention
P337 + P313: If eye irritation persists: Get medical advice/attention
P362: Take off contaminated clothing and wash before reuse
P403 + P233: Store in a well-ventilated place, keep container tightly closed
P405: Store locked up
P501: Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) by GHS
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym(s) 4-Amino-N-(2-thiazolyl)benzenesulfonamidesodium salt

Formula \( \text{C}_9\text{H}_8\text{N}_3\text{NaO}_2\text{S}_2 \)

Molecular Weight 277.30 g/mol
4. **FIRST-AID MEASURES**

   **General Advice**
   Consult a physician. Show this Safety Data Sheet to the medical provider.

   **If Inhaled**
   If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a doctor.

   **In Case of Skin Contact**
   Wash thoroughly with plenty of soap and water. Consult a physician.

   **In Case of Eye Contact**
   Rinse thoroughly with plenty of water as a precaution.

   **If Swallowed**
   Never give anything by mouth to an unconscious person. Consult a doctor. Rinse mouth with water.

   Most important symptoms and effects, both acute and delayed
   Please see Section 2 and/or Section 11

   Indication of any immediate medical attention and special treatment needed
   No data available

5. **FIRE-FIGHTING MEASURES**

   **Suitable Extinguishing Media**
   Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

   **Special Protective Equipment for Firefighters**
   Wear self-contained breathing apparatus

   **Hazardous Combustion Products**
   Formed under fire conditions: Carbon oxides, nitrogen oxides, Sulphur oxides, Sodium oxides

6. **ACCIDENTAL RELEASE MEASURES**
<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td>Evacuate personnel to safe location</td>
</tr>
<tr>
<td><strong>Personal Precautions</strong></td>
<td>Wear respiratory protection. Avoid dust formation and breathing vapors/mist/dust/gas. Ensure adequate ventilation</td>
</tr>
<tr>
<td><strong>Environmental Precautions</strong></td>
<td>Prevent spillage, do not let product enter drains</td>
</tr>
<tr>
<td><strong>Methods of Containment and Cleanup</strong></td>
<td>Place in suitable, closed containers for licensed disposal. Avoid dust formation</td>
</tr>
</tbody>
</table>

7. **HANDLING AND STORAGE**

- **Precautions for Safe Handling**
  Avoid contact with skin and eyes. Provide exhaust ventilation in areas where dust if formed

- **Precautions for Safe Storage**
  Keep container tightly closed and in a dry, well-ventilated place. Recommended storage temperature: 2-8°C
  Protect from light

- **Incompatibilities**
  None known

8. **EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Contains no substances with occupational exposure limit values

- **PPE: Respiratory protection**
  For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

- **PPE: Hand Protection**
  Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands

- **PPE: Eye Protection**
  Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
PPE: Skin and Body Protection

Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit.

9. PHYSICAL/CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Crystalline white powder</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>202.5 °C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>479.5 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>243.8 °C</td>
</tr>
<tr>
<td>Ignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Explosion Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper Explosion Limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Freely soluble</td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Optical Rotation</td>
<td>No data available</td>
</tr>
<tr>
<td>Absorbance (290nm, 5% in H₂O)</td>
<td>No data available</td>
</tr>
<tr>
<td>Water content (Loss on drying)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under recommended storage conditions</td>
</tr>
<tr>
<td>Possibility of Hazardous Reactions</td>
<td>No data available</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>No data available</td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>Strong oxidizing agents</td>
</tr>
</tbody>
</table>
Hazardous Decomposition Products
Carbon oxides, nitrogen oxides, Sulphur oxides, Sodium oxides

11. TOXICOLOGICAL INFORMATION

Oral LD$_{50}$
Mouse: 3,800 mg/kg

Inhalation LC$_{50}$
No data available

Dermal LD$_{50}$
No data available

Intraperitoneal LD$_{50}$
Mouse: 1,320 mg/kg

Intravenous LD$_{50}$
Mouse: 708 mg/kg

Subcutaneous LD$_{50}$
Mouse: 1,434 mg/kg

Skin Corrosion/Irritation
No data available

Serious Eye Damage/ Eye Irritation
Eye irritation

Respiratory or Skin Sensitization
No data available

Germ Cell Mutagenicity
No data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive Toxicity
No data available

Specific Target Organ Toxicity: Single Exposure (Globally Harmonized System)
Inhalation - May cause respiratory irritation

Specific Target Organ Toxicity: Repeated Exposure (Globally Harmonized System)
No data available

Aspiration Hazard
No data available

Potential Health Effects
See Section 2, Hazard(s) Identification
Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated

Synergistic Effects
No data available

Additional Information
RTECS: WP2450000
Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION
Toxicity
No data available
Persistence and Degradability
No data available
Bioaccumulative Potential
No data available
Mobility in Soil
No data available
PBT and vPvB Assessment
No data available

13. DISPOSAL CONSIDERATIONS
Product
Dispose of product through a licensed disposal company
Contaminated Packaging
Dispose of as unused product

14. TRANSPORTATION INFORMATION
DOT (US)
Not Dangerous Goods
IMDG
Not Dangerous Goods
IATA
Not Dangerous Goods

15. REGULATORY INFORMATION
SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
<table>
<thead>
<tr>
<th>SARA 313 Components</th>
<th>This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 311/312 Hazards</td>
<td>Acute Health Hazard, Chronic Health Hazard</td>
</tr>
<tr>
<td>Massachusetts Right to Know Components</td>
<td>No components are subject to the Massachusetts Right to Know Act</td>
</tr>
</tbody>
</table>
| Pennsylvania Right to Know Components | 4-Amino-N-(2-thiazolyl)benzenesulfonamide sodium salt  
CAS-No. [144-74-1]  
Revision date: Not available |
| New Jersey Right to Know Components | 4-Amino-N-(2-thiazolyl)benzenesulfonamide sodium salt  
CAS-No. [144-74-1]  
Revision date: Not available |
| California Prop. 65 Components | This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm |
| EU Information | Sulfathiazole sodium  
CAS-No. [144-74-1]  
EC-No. [205-638-5]  
Envisaged registration deadline: 30/11/2010 |

16. OTHER INFORMATION

Date of last revision: 2015-08-13

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. TOKU-E Company shall not be held liable for any damage resulting from handling or from contact with the above product. Please see reverse side of invoice or packing slip for additional terms and conditions of sale.