1. IDENTIFICATION
   - Product Identifier: Sarafloxacin HCl
   - Product Number: S003
   - Distributor Name: TOKU-E Company
   - Distributor Address: 715 W Orchard Dr. Suite 3 Bellingham, WA 98225
   - Phone Number: (360)734-1789
   - Emergency Phone Number (International): +1 (352) 353-3500
   - Emergency Phone Number (US Only): 1 (800) 535-5053
   - Safety Data Sheet Issued by: TOKU-E USA
   - CAS-Number: [91296-87-6]
   - EC/REACH Number: Not Available
   - Recommended Use: Sarafloxacin HCl is a broad spectrum antibiotic targeting a wide range of gram positive and gram negative bacteria.
   - Restrictions of Use: Not for human or animal use

2. HAZARD(S) IDENTIFICATION
   - GHS Classification: Not classified. Toxicology information unavailable.
   - GHS Label Elements, Including: None
   - Hazards not otherwise classified (HNOC) by GHS: None

3. COMPOSITION/INFORMATION ON INGREDIENTS
   - Synonym(s): No Data Available
   - Formula: \( \text{C}_{20}\text{H}_{17}\text{F}_{2}\text{N}_{3}\text{O}_{3} \cdot \text{HCl} \)
   - Molecular Weight: 421.83 g/mol
   - CAS-Number: [91296-87-6]
   - EC/REACH Number: Not Available
   - Hazardous Components: No Data Available

4. FIRST-AID MEASURES
   - General Advice: Consult a doctor/physician if exposed - additional medical care may be required. Show this Safety Data Sheet to the medical provider.
   - If Inhaled: If inhaled, move to fresh air. If not breathing, give artificial respiration and immediately call local emergency telephone number.
   - In Case of Skin Contact: Wash skin thoroughly with soap and water.
   - In Case of Eye Contact: Flush eye with water. After initial flush, remove any contact lenses and continue flushing for at least 15 minutes.
   - If Swallowed: Rinse mouth with water. Immediately call a doctor, physician, or poison control center. Never give...
Specific Treatment

anything by mouth to an unconscious person.
Please see Section 2 precautionary statements and/or Section 11.

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 and nitrogen oxides, hydrogen fluoride gas, hydrogen chloride gas

6. **ACCIDENTAL RELEASE MEASURES**

**General**
Evacuate personnel to a safe location. Use appropriate personal protective equipment while in contact with product. Avoid dust formation. Ensure adequate ventilation.

**Personal Precautions**
Prevent contamination of skin, eyes and clothing with appropriate protective equipment (Section 8). Wear respiratory protection.

**Environmental Precautions**
Recover waste, if possible, and place in suitable closed container for licensed disposal. Prevent spillage - do not let product enter drains.

7. **HANDLING AND STORAGE**

**Precautions for Safe Handling**
Wear appropriate protective clothing/gear to prevent contact with skin and eyes. Provide exhaust ventilation or respiratory protection in areas where dust is formed.

**Precautions for Safe Storage**
Store in a tightly closed container. Protect from humidity. Recommended storage temperature: 2-8°C

**Incompatibilities**
No Data Available

8. **EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Contains no substance/substances with occupational exposure limit values

**OSHA Permissible Exposure Limits**
No Data Available

**NIOSH Recommended Exposure Limits**
No Data Available

**ACGIH Threshold Limit Values**
No Data Available

**PPE: Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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 workplace. 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>White or creamy colored crystalline powder</td>
</tr>
<tr>
<td>Lower Flammability/Explosion Limit</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Upper Flammability/Explosion Limit</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Odor</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Odor Threshold</td>
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</tr>
<tr>
<td>Vapor Density</td>
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</tr>
<tr>
<td>pH</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Boiling Point and Range</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Ignition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Density</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>
</tbody>
</table>
Conditions to Avoid
Materials to Avoid
Hazardous Decomposition Products

No Data Available
Strong oxidizing agents
Formed under fire conditions: carbon and nitrogen oxides, hydrogen fluoride gas, hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Oral LD$_{50}$
Inhalation LC$_{50}$
Dermal LD$_{50}$
Intraperitoneal LD$_{50}$
Intravenous LD$_{50}$
Subcutaneous LD$_{50}$
Skin Corrosion/Irritation
Serious Eye Damage/ Eye irritation
Respiratory or Skin Sensitization
Germ Cell Mutagenicity
Carcinogenicity

No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available

Reproductive Toxicity
Specific Target Organ Toxicity: Single Exposure (Globally Harmonized System)
Specific Target Organ Toxicity: Repeated Exposure (Globally Harmonized System)
Aspiration Hazard
Potential Health Effects
Signs and Symptoms of Exposure
Synergistic Effects
Additional Information

No Data Available
No Data Available
No Data Available
See Section 2, Hazard(s) Identification
To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated
No Data Available
No Data Available

12. ECOLOGICAL INFORMATION

Toxicity
Persistence and Degradability
Bio accumulative Potential
Mobility in Soil
PBT and vPvB Assessment

No Data Available
No Data Available
No Data Available
No Data Available
No Data Available

In the absence of complete ecological information, treat product as environmentally hazardous. Use proper storage, handling, and disposal to prevent unintentional release into the environment.

13. DISPOSAL CONCENTRATIONS

Product
Contaminated Packaging

Dispose of product through a licensed disposal company.
Dispose of as unused product.
14. TRANSPORTATION INFORMATION
DOT (US) Not a Dangerous Good
IMDG Not a Dangerous Good
IATA Not a Dangerous Good

15. REGULATORY INFORMATION
SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312

Massachusetts Right to Know
No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know
No components are subject to the Pennsylvania Right to Know Act

New Jersey Right to Know
No components are subject to the New Jersey Right to Know Act

California Prop. 65 Components
No
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
SDS in accordance with REACH 1907/2006
A registration number is not available for this substance or its uses are exempted from registration, or the registration is envisaged for a later registration deadline.
See GHS Information under Section 2, Hazard Identification

16. OTHER INFORMATION
Revision Date: 2017-04-24

HMIS Rating
Health Hazard 0
Chronic Health Hazard No
Flammability 0
Physical Hazard 0

NFPA Rating
Health Hazard 0
Fire Hazard 0
Reactivity Hazard 0

This safety data sheet represents TOKU-E Company’s current understanding of the hazards
associated with this product. The stated hazard information is based on existing experimental data and is not guaranteed to be all-inclusive. TOKU-E Company strives to maintain current and comprehensive safety information but recognizes that this safety data sheet may require revision as new information becomes available. TOKU-E Company shall not be held liable for damage or injury resulting from contact, handling, or storage of this product.