1. IDENTIFICATION

Product Identifier     | Flucloxacillin sodium
Product Number         | F009
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             | [1847-24-1]
EC/REACH Number        | [217-428-0]
Recommended Use        | Commonly used in clinical *in vitro* microbiological antimicrobial susceptibility tests.
Restrictions of Use    | Not for human or animal use

2. HAZARD(S) IDENTIFICATION

GHS Classification     | Sensitisation, skin (Category 1)
                         | Sensitisation, respiratory (Category 1)

GHS Label Elements, Including

Signal Word: Danger

Hazard Statements
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements
P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/soap
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment, see applicable response statements on this label
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with governmental regulation
P284 In case of inadequate ventilation wear respiratory protection
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: call a POISON CENTER or

Hazards not otherwise classified (HNOC) by GHS No Data Available
3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym(s) Floxacillin sodium
Formula $C_{19}H_{16}ClFN_3NaO_5S$
Molecular Weight 475.85
CAS-Number [1847-24-1]
EC/REACH Number [217-428-0]
Hazardous Components Flucloxacillin sodium
Sensitisation, skin (Category 1)
Sensitisation, respiratory (Category 1)

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 anything by mouth to an unconscious person.
Specific Treatment 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, carbon monoxide, sulfur dioxide, hydrogen fluoride gas, hydrogen chloride gas, hydrogen peroxide

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: >30°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

Appearance
White or off-white crystalline powder

Lower Flammability/Explosion Limit
No Data Available

Upper Flammability/Explosion Limit
No Data Available

Odor
No Data Available

Vapor Pressure
No Data Available

Odor Threshold
No Data Available
Vapor Density: No Data Available
pH: 5.0 – 7.0
Relative Density: No Data Available
Melting Point/Freezing Point: No Data Available
Water Solubility: No Data Available
Solubility in Other Solvents: No Data Available
Boiling Point and Range: No Data Available
Flash Point: No Data Available
Evaporation rate: No Data Available
Flammability (solid, gas): No Data Available
Partition Coefficient: n-octanol/water: No Data Available
Ignition Temperature: No Data Available
Auto-Ignition Temperature: No Data Available
Decomposition Temperature: No Data Available
Viscosity: No Data Available
Density: No Data Available
Optical Rotation: +158° - +168°
Absorbance (290nm, 5% in H₂O): No Data Available
Water Content (Loss on Drying): 3.0 - 4.5%

10. STABILITY AND REACTIVITY
   Chemical Stability: Stable under recommended storage conditions
   Possibility of Hazardous Reactions: No Data Available
   Conditions to Avoid: No Data Available
   Materials to Avoid: Strong oxidizing agents
   Hazardous Decomposition Products: Formed under fire conditions: carbon and nitrogen oxides, carbon monoxide, sulfur dioxide, hydrogen fluoride gas, hydrogen chloride gas, hydrogen peroxide

11. TOXICOLOGICAL INFORMATION
   Oral LD₅₀: Rat: 11 gm/kg
   Inhalation LC₅₀: No Data Available
   Dermal LD₅₀: No Data Available
   Intraperitoneal LD₅₀: Rat: 1100 mg/kg
   Intravenous LD₅₀: Rat: 680 mg/kg
   Subcutaneous LD₅₀: Rat: 2800 mg/kg
   Skin Corrosion/Irritation: No Data Available
   Serious Eye Damage/ Eye Irritation: No Data Available
   Respiratory or Skin Sensitization: No Data Available
   Germ Cell Mutagenicity: No Data Available
   Carcinogenicity: No Data Available
   Reproductive Toxicity: This substance has not been identified as a potential carcinogen within the National Toxicology Program Report on Carcinogens or within the International Agency for Research on Cancer Monograph.
   **Rat: Female TDLo 6 gm/kg, oral**
   9-14 days post conception
   Reproductive - Effects on embryo or fetus - fetal death
Specific Target Organ Toxicity: Single Exposure (GHS)  No Data Available
Specific Target Organ Toxicity: Repeated Exposure (GHS)  No Data Available
Aspiration Hazard  No Data Available
Potential Heath 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  β-Lactam

β-lactams are a broad class of antibiotics and include penicillins and cephalosporins. Some individuals experience adverse immunological responses or allergic reactions to β-lactam antibiotics. Because of the similarity in structure between penicillins and cephalosporins, those who are allergic to one class of agents may manifest cross-allergenicity when exposed to a member of another class

TOKU-E Company assumes this chemical has the potential to induce an allergic reaction in some individuals. To the best of our knowledge, the correlation between this specific material and respiratory or skin sensitization has not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity  No Data Available
Persistence and Degradability  No Data Available
Bio accumulative Potential  No Data Available
Mobility in Soil  No Data Available
PBT and vPvB Assessment  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  Dispose of product through a licensed disposal company.
Contaminated Packaging  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
EC/ REACH Number [217-428-0]
CAS-Number [1847-24-1]
Name: Flucloxacillin sodium
Envisaged Registration Deadline: 31/05/2013
See GHS Information under Section 2, Hazard Identification

16. OTHER INFORMATION
Revision Date: 2016-10-05

HMIS Rating
Health Hazard 0
Chronic Health Hazard N
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.