1. IDENTIFICATION

Product Identifier: Fosfomycin sodium
Product Number: F013
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: [26016-99-9]
EC/REACH Number: [247-409-2]

Recommended Use: Fosfomycin sodium is an antibiotic which inhibits cell wall synthesis and is freely soluble in aqueous solution at 50 mg/mL.

Restrictions of Use: Not for human or animal use

2. HAZARD(S) IDENTIFICATION

GHS Classification: Acute toxicity (Oral, Category 5)

GHS Label Elements, Including:
- No pictogram required
- Signal word: Warning

Hazard Statements:
H303 May be harmful if swallowed

Precautionary Statements:
P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Hazards not otherwise classified (HNOC): No Data Available by GHS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym(s): Disodium fosfomycin, Disodium phosphomycin, Fosfomycin disodium salt, Sodium fosfomycin

Formula: C$_3$H$_5$O$_4$P·2Na
Molecular Weight: 182.03
CAS-Number: [26016-99-9]
EC/REACH Number: [247-409-2]

Hazardous Components: Fosfomycin sodium
Acute toxicity (Oral, Category 5)

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, 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. Hygroscopic.

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 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>White or off-white 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>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>pH</td>
<td>9.0 – 10.5</td>
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<tr>
<td>Relative Density</td>
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<tr>
<td>Melting Point/Freezing Point</td>
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<tr>
<td>Water Solubility</td>
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<tr>
<td>Solubility in Other Solvents</td>
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<tr>
<td>Boiling Point and Range</td>
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<tr>
<td>Flash Point</td>
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</tr>
<tr>
<td>Evaporation rate</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Ignition Temperature</td>
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<tr>
<td>Auto-Ignition Temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>
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, hydrogen peroxide

11. TOXICOLOGICAL INFORMATION
Oral LD$_{50}$
Rat - 4,550 mg/kg
Inhalation LC$_{50}$
No Data Available
Dermal LD$_{50}$
No Data Available
Intraperitoneal LD$_{50}$
Rat - 2,000 mg/kg
Intravenous LD$_{50}$
Rat - 1,560 mg/kg
Subcutaneous LD$_{50}$
Rat - 4,320 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
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.

Reproductive Toxicity
Fetal toxicity, including reduced growth statistics and musculoskeletal abnormalities, was observed within offspring of rats exposed to Fosfomycin sodium during gestation (TDLo - 22,500 mg/kg, 1,375 mg/kg, 11,000 mg/kg).

Specific Target Organ Toxicity: Single Exposure (Globally Harmonized System)
No Data Available
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
No Data Available

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: 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 [247-409-2]
CAS-Number [26016-99-9]
Name: Fosfomycin sodium
Envisaged Registration Deadline: 31/05/2013
See GHS Information under Section 2, Hazard Identification

16. OTHER INFORMATION
Revision Date: 2016-07-07
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.