1. **IDENTIFICATION**
   
   **Product Identifier**
   Amphotericin B, solubilized
   
   **Product Number**
   A008, A060, A062, A097
   
   **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**
   [1397-89-3]
   
   **EC/ REACH Number**
   [215-742-2]
   
   **Recommended Use**
   Amphotericin B associates with membrane sterols in mammalian and fungal cell membranes. Amphotericin B forms a pore in these membranes leading to essential ion leakage and ultimately, cell death.
   
   **Restrictions of USE**
   Not for human or animal use

2. **HAZARD(S) IDENTIFICATION**
   
   **GHS Classification**
   Skin irritant (Category 2)
   Eye irritant (Category 2A)
   Specific target organ, single exposure, respiratory (Category 3)
   
   **GHS Label Elements, Including**
   
   **Signal Word:** Warning
   
   **Hazard Statements**
   
   H315 Causes skin irritation
   H319 Causes serious eye irritation
   H335 May cause respiratory irritation
   
   **Precautionary Statements**
   P264 Wash hands/skin thoroughly after handling.
   P280 Wear protective gloves/protective clothing/eye protection/face protection.
   P302+P352 IF ON SKIN: Wash with plenty of soap and water.
   P321 Specific treatment, see applicable response statements on this label
   P332+P313 IF SKIN irritation occurs: Get medical advice/attention.
   P362 Take off contaminated clothing and wash before reuse
   P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.
   P305... (cont) If eye irritation persists:
P313 Get medical advice/attention.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
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
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

Hazards not otherwise classified (HNOC) None
by GHS

3. COMPOSITION/INFORMATION ON INGREDIENTS
Synonym(s) None
Formula C\textsubscript{47}H\textsubscript{73}NO\textsubscript{17}
Molecular Weight 924.08 g/mol
CAS-Number [1397-89-3]
EC/REACH Number [215-742-2]
Hazardous Components
Amphotericin B
Skin irritant (Category 2)
Eye irritant (Category 2A)
Specific target organ, single exposure, respiratory
(Category 3)
Sodium deoxycholate
Acute toxicity, oral (Category 4)
Specific target organ, single exposure, respiratory
(Category 3)

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 Wash thoroughly with plenty of water for at least 15 minutes
If Swallowed Never give anything by mouth to an unconscious person. Consult a doctor. Rinse mouth with water.
More important symptoms and effects, both acute and delayed indication of any immediate medical attention and special treatment needed
Please see Section 2 and/or Section 11

5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical, carbon dioxide
Special Protective Equipment for Wear self-contained breathing apparatus
Firefighters
Hazardous Combustion Products  Formed under fire conditions: Carbon, Nitrogen, Phosphorus, and Sodium oxides

6. **ACCIDENTAL RELEASE MEASURES**
   General  Evacuate personnel to safe location
   Personal Precautions  Wear respiratory protection. Avoid dust formation and breathing vapors/mist/dust/gas. Ensure adequate ventilation
   Environmental Precautions  Prevent spillage, do not let product enter drains
   Place in suitable, closed containers for licensed disposal. Avoid dust formation

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
   Incompatibilities  None known

8. **EXPOSURE CONTROLS/ PERSONAL PROTECTION**
   Contains no substances with occupational exposure limit values
   
   **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**

   - Appearance: Yellow to Orange powder
   - pH: No Data Available
   - Melting Point/Freezing Point: No Data Available
   - Boiling Point: No Data Available
   - Flash Point: No Data Available
   - Ignition Temperature: No Data Available
   - Auto-Ignition Temperature: No Data Available
   - Lower Explosion Limit: No Data Available
   - Upper Explosion Limit: No Data Available
   - Vapor Pressure: No Data Available
   - density: No Data Available
   - Water Solubility: No Data Available
   - Solubility in Other Solvents: No Data Available
   - Partition Coefficient: n-octanol/water: No Data Available
   - Optical Rotation: No Data Available
   - Absorbance (290nm, 5% in H$_2$O): No Data Available
   - Water Content (Loss on Drying): No Data Available

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: Carbon, Nitrogen, Phosphorus, and Sodium oxides formed under fire conditions

11. **TOXICOLOGICAL INFORMATION**

   - Oral LD$_{50}$: No Data Available
   - Inhalation LC$_{50}$: No Data Available
   - Dermal LD$_{50}$: No Data Available
   - Intraperitoneal LD$_{50}$: No Data Available
   - Intravenous LD$_{50}$: No Data Available
   - Subcutaneous LD$_{50}$: No Data Available
   - 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: 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
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

12. ECOLOGICAL INFORMATION
Toxicity
Persistence and Degradability
Bio accumulative Potential
Mobility in Soil
PBT and vPvB Assessment

No Data Available

13. DISPOSAL CONCENTRATIONS
Product
Contaminated Packaging

Dispose of product through a licensed disposal company
Dispose of as unused product

14. TRANSPORTATION INFORMATION
DOT (US)
IMDG
IATA

Not Dangerous Goods
Not Dangerous Goods
Not Dangerous Goods

15. REGULATORY INFORMATION
SARA 302 Components
SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
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
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 Components
Disodium hydrogenorthophosphate
CAS-No. [7558-79-4]  Revision Date: 2007-03-01

Pennsylvania Right to Know Components
Amphotericin B
CAS-No. [1397-89-3]
Disodium hydrogenorthophosphate
CAS-No. [7558-79-4]  Revision Date: 2007-03-01
Sodium deoxycholate
CAS-No. [302-95-4]

New Jersey Right to Know Components
Amphotericin B
CAS-No. [1397-89-3]
Disodium hydrogenorthophosphate
CAS-No. [7558-79-4]  Revision Date: 2007-03-01
Sodium deoxycholate
CAS-No. [302-95-4]

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 [215-742-2]
CAS-Number [1397-89-3]
Name: Amphotericin B
Envisaged Registration Deadline: 30/11/2010

EC/REACH Number [206-132-7]
CAS-Number [302-95-4]
Name: Sodium Deoxycholate
Envisaged Registration Deadline: 30/11/2010

EC/REACH Number [231-448-7]
CAS-Number [7558-79-4]
Name: Disodium hydrogenorthophosphate
Envisaged Registration Deadline: 30/11/2010

See GHS Information under Section 2, Hazard Identification

16. OTHER INFORMATION
Revision Date: 2016-03-04

Full text of H-Statements referred to under sections 2 and 3.
HMIS Rating
Health Hazard 2
Chronic Health Hazard *
- Flammability 0
- Physical Hazard 0

NFPA Rating
- Health Hazard 2
- Fire Hazard 0
- Reactivity Hazard 0

**Further information**
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.