1. IDENTIFICATION

Product Identifier: 4-Epi-Oxytetracycline, EvoPure (Oxytetracycline-Related Compound A)

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) 323-3500
Emergency Phone Number (US only): 1 (800) 535-5053
Safety data sheet issued by: TOKU-E USA
CAS-no.: [14206-58-7]
EC/REACH Number: Not available
Recommended Use: Not available
Restrictions on Use: Secondary reference standard

2. HAZARD(S) IDENTIFICATION

GHS Classification: Acute Toxicity, Oral (Category 4)
GHS Label Elements, Including Pictograms:

Signal Word: Warning

Hazard Statements: H302: Harmful if swallowed
Precautionary Statements: P261: Avoid breathing dust/ fumes/ gas/ mist/ vapors/ spray
P280: Wear protective gloves

Hazards not otherwise classified (HNOC) by GHS: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: \( \text{C}_{22}\text{H}_{24}\text{N}_{2}\text{O}_{93500} \)
Molecular Weight: 460.44 g/mol
CAS-No.: [14206-58-7]
EC/REACH Number: Not available
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 Eye Contact**
   
   Rinse thoroughly with plenty of water for at least 15 minutes, consult a doctor.
   
   **If Swallowed**
   
   Never give anything by mouth to an unconscious person. Consult a doctor. Rinse mouth with water.

5. **FIRE-FIGHTING MEASURES**

   **Conditions of Flammability**
   
   Not flammable or combustible
   
   **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

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
   
   **Methods of Containment and Cleanup**
   
   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. Store at -20°C and protect from light and moisture.
   
   **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
When deemed needed according to the concentration and amount of this product, use a complete body suit

9. PHYSICAL/CHEMICAL PROPERTIES
Appearance: Yellow powder
pH: No data available
Melting Point/Freezing Point: 195-201°C
Boiling Point: No data available
Flash Point: No data available
Water Content (Karl Fisher): <2.0%
Ignition Temperature: No data available
Autoignition 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: 0.5 mg/mL
Solubility in Other Solvents: DMSO, Methanol soluble
Partition Coefficient: n-octanol/water: No data available
Relative vapor density: No data available
Odor: No data available
Odor Threshold: No data available
Evaporation Rate: 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 and Nitrogen formed under fire conditions

11. TOXICOLOGICAL INFORMATION
Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD$_{50}$: No data available
Intraperitoneal LD$_{50}$: No data available
Intravenous LD$_{50}$: No data available
Skin Corrosion/Irritation: No data available
Respiratory or Skin Sensitization: May cause allergic respiratory reaction. May cause allergic skin reaction. Causes photosensitivity. Exposure to light can result in allergic reactions resulting in dermatologic lesions, which may vary from sunburn-like responses to edematous, vesiculated lesions, or bullae
Germ Cell Mutagenicity: No data available
Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a possible or probable carcinogen by IARC, ACGIH, NTP, or OSHA
Reproductive Toxicity: No data available
Teratogenicity: Suspected teratogen
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 product have not been thoroughly investigated
Synergistic Effects: No data available
Additional Information: RTECS: Not available

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
Treat as if harmful if released into environment

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
   OSHA Hazards
   Target Organ Effect, Harmful by Ingestion, Teratogen
   SARA 302 Components
   No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
   SARA 313 Components
   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
   Acute Health Hazard, Chronic Health Hazard
   Massachusetts Right to Know Components
   No components are subject to the Massachusetts Right to Know Act
   Pennsylvania Right to Know Components
   No components are subject to the Pennsylvania Right to Know Act
   New Jersey Right to Know Components
   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 cancer, birth defects, or any other reproductive harm
   Canada Information
   Identifier: [14206-58-7]
   This substance is not specified on any list. There is no control measure imposed on this substance
   EU Information
   SDS in accordance with REACH 1907/2006
   Not an ECHA Pre-Registered or Registered Substance
   See GHS Information under Section 2, Hazard Identification

16. OTHER INFORMATION
   Date of last revision: 2016-01-12

   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.