COLISTIN SODIUM METHANESULFONATE
SAFETY DATA SHEET
Revision Date 2016-10-05

1. IDENTIFICATION
Product Identifier Colistin sodium methanesulfonate
Product Number C073
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 [8068-28-8]
EC/REACH Number [232-516-9]
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 Reproductive toxicity (Category 2)
Reproductive toxicity, effects on or via lactation
GHS Label Elements, Including

Signal Word: Warning
Hazard Statements
H361 Suspected of damaging fertility or the unborn child
H362 May cause harm to breast-fed children

Precautionary Statements
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with governmental regulation
P260 Do not breathe dust/fumes/gas/mist/vapors/spray.
P263 Avoid contact during pregnancy/while nursing
P264 Wash hands/skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS
Synonym(s)  Colistimethanesulfonic acid sodium salt, colistimethate sodium, colistin sulfomethate
Formula  \( C_{58}H_{115}N_{16}Na_{5}O_{28}S_{5} \)
Molecular Weight  1759.90
CAS-Number  [8068-28-8]
EC/REACH Number  [232-516-9]
Hazardous Components  Colistin sodium methanesulfonate
Reproductive toxicity (Category 2)
Reproductive toxicity, effects on or via lactation

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 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: 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 work place. When deemed needed according to the concentration and amount of this product, use a complete body suit

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance
White or almost white 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
pH
Relative Density
Melting Point/Freezing Point
Water Solubility
Solubility in Other Solvents
Boiling Point and Range
Flash Point
Evaporation rate
Flammability (solid, gas)
Partition Coefficient: n-octanol/water
Ignition Temperature
Auto-Ignition Temperature
Decomposition Temperature
Viscosity
Density
Specific Rotation
Absorbance (290nm, 5% in H₂O)
Water Content (Loss on Drying)

10. STABILITY AND REACTIVITY
Chemical Stability
Possibility of Hazardous Reactions
Conditions to Avoid
Materials to Avoid

11. TOXICOLOGICAL INFORMATION
Oral LD₅₀
Inhalation LC₅₀
Dermal LD₅₀
Intraperitoneal LD₅₀
Intravenous LD₅₀
Subcutaneous LD₅₀
Skin Corrosion/Irritation
Serious Eye Damage/ Eye Irritation
Respiratory or Skin Sensitization
Germ Cell Mutagenicity
Carcinogenicity

Reproductive Toxicity

Absorbance (290nm, 5% in H₂O) No Data Available
Water Content (Loss on Drying) Not more than 5.0%

Stable under recommended storage conditions
No Data Available
Strong oxidizing agents
Formed under fire conditions: carbon and nitrogen oxides, carbon monoxide, sulfur dioxide, hydrogen peroxide

No Data Available
Rat: 86 mg/kg
Mouse: 222 mg/kg
Rat: 87 mg/kg
Rat: Female, TDLo 275 mg/kg, intravenous
7-17 days post conception
Reproductive - Specific Developmental Abnormalities -
Rat: Male, TDL0 300 mg/kg, parenteral
30 days pre-mating

Toxic Effects
Reproductive - Paternal Effects - prostate, seminal vesicle, Cowper’s gland, accessory glands.

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
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
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 [232-516-9]
CAS-Number [8068-28-8]
Name: Colistin sodium methanesulfonate
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 1
Chronic Health Hazard Y
Flammability 0
Physical Hazard 0

NFPA Rating
Health Hazard 1
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.