1. IDENTIFICATION

Product Identifier
Pipemidic Acid

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.
[51940-44-4]

EC/REACH Number
[257-530-2]

Recommended Use
Microbiological antimicrobial susceptibility tests (panels, discs, and MIC strips) against gram positive and gram negative microbial isolates

Restrictions on Use
Not for human or animal use

2. HAZARD(S) IDENTIFICATION

GHS Classification
Respiratory sensitization (Category 1), H334 Skin sensitization (Category 1), H317

GHS Label Elements, Including Precautionary statements

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/fume/gas/mist/vapors/spray
P272: Contaminated work clothing should not be allowed out of the workplace
P280: Wear protective gloves
P285: In case of inadequate ventilation wear respiratory protection
P302 + P352: IF ON SKIN: Wash with plenty of soap and water
P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P321: Specific treatment
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor
P363: Wash contaminated clothing before reuse
P501: Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC) by GHS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym(s)

8-Ethyl-5,8-dihydro-5-oxo-2-(1-piperazinyl)pyrido(2,3-d)pyrimidine-6-carboxylic acid

Formula

C_{14}H_{17}N_{5}O_{3}

Molecular Weight

303.32 g/mol

CAS-No.

[51940-44-4]

EC No.

[257-530-2]

Index-No.

Not available

Hazardous components

Pipemidic Acid
Resp. Sens. 1; Skin Sens. 1; H317, H334
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  Rinse thoroughly with plenty of water as a precaution

If Swallowed  Never give anything by mouth to an unconscious person. Consult a doctor. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed  Please see Section 2 and/or Section 11

Indication of any immediate medical attention and special treatment needed  No data available

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

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. Recommended storage temperature: 2-8°C
Protect from light

Incompatibilities
None known

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Contains no substances with occupational exposure limit values

PPE: Respiratory protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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  Light yellow powder
pH  No data available
Melting Point/Freezing Point  251-255 °C
Boiling Point  No data available
Flash Point  No data available
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  Very slightly soluble
Solubility in Other Solvents  Acids and bases: soluble
Alcohols: very slightly soluble
Partition Coefficient: n-octanol/water  No data available
Optical Rotation  No data available
Absorbance (290nm, 5% in H₂O)  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 and Nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Oral LD₅₀  Rat: 16,000 mg/kg
Inhalation LC₅₀  No data available
Dermal LD₅₀: No data available
Intraperitoneal LD₅₀: No data available
Intravenous LD₅₀: No data available
Subcutaneous LD₅₀: 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: Rat: DNA damage

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: Reproductive toxicity
Rat: Oral
Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Developmental Toxicity: Rat: Oral
Specific Developmental Abnormalities: Urogenital system.

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

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

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

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

Massachusetts Right to Know Components  
No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components  
Pipemidic Acid  
CAS-No. [51940-44-4]  
Revision date: Not available

New Jersey Right to Know Components  
Pipemidic Acid  
CAS-No. [51940-44-4]  
Revision date: Not available

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  
Pipemidic Acid  
CAS-No. [51940-44-4]  
EC-No. [257-530-2]  
Envisaged registration deadline: 31/05/2013

16. OTHER INFORMATION

Date of last revision: 2015-08-13

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.