1. **IDENTIFICATION**
   - **Product Identifier**: Colchicine
   - **Product Number**: C093
   - **Distributor Name**: TOKU-E Company
   - **Distributor Address**: 715 W Orchard Dr, Suite 3
     Bellingham, WA 98225
   - **Phone Number**: (360) 734-1789
   - **Emergency Phone Number (US only)**: 1 (800) 535-5053
   - **Safety Data Sheet Issued by**: TOKU-E USA
   - **CAS-Number**: [64-86-8]
   - **REACH Number**: [200-598-5]
   - **Recommended Use**: Used as a mitotic poison in research as a chemotherapeutic agent. Routinely used to select for cells containing resistance to the MDCK (NBL-2) cell line at an effective concentration of 800 µg/mL.

   **Restrictions on Use**: Not for human or animal use

2. **HAZARD(S) IDENTIFICATION**
   - **GHS Classification**: Acute toxicity, Oral (Category 2)
     Germ cell mutagenicity (Category 1B)
   - **GHS Label Elements, Including Precautionary statements**
     - **Signal word**: Danger
     - **Hazard Statements**: H300: Fatal if swallowed
       H340: May cause genetic defects
     - **Precautionary Statements**: P202: Do not handle until all safety precautions have been read and understood
       P270: Do not eat, drink, or smoke when using this product
       P281: Use personal protective equipment as required
       P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
       P308+P313: IF exposed or concerned: Get medical advice/attention
3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonym(s)**
Acetamide N-(5,6,7,9-tetrahydro-1,2,3,10-tetramethoxy-9-oxobenzo(alpha)heptalen-7-yl); N-Acetyl trimethylcolchicinic acid methylether; Benzo(a)heptalen-9(5H)-one, 7-acetamido-6,7-dihydro-1,2,3,10-tetramethoxy; Colchicin; Colchicina; 7-alpha-H-Colchicine; Colchines; Colchisol; Colcin; Colsaloid; Condylon; NSC 757

**Formula**
C$_{22}$H$_{25}$NO$_{6}$

**Molecular Weight**
399.48 g/mol

**CAS-Number**
[64-86-8]

**EC-Number**
[200-598-5]

**Index-Number**
[614-005-00-6]

**Hazardous components**
Component: Colchicine
Classification: Acute Toxicity - Oral, 2; Mutagenicity, 1B; H300; H340;
Concentration: 90-100%

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.

Most 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

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.

Incompatibilities
Light sensitive

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 Light yellow powder
pH 5.9 at 5 g/L
Melting Point/Freezing Point 150-160°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 45 mg/mL
Solubility in Other Solvents No data available
Partition Coefficient: n-octanol/water No data available
Optical Rotation No data available
Absorbance (290nm, 5% in H₂O) No data available
Water content (Karl Fisher) No data available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended storage conditions
Possibility of Hazardous Reactions No data available
Conditions to Avoid Light and moisture
Materials to Avoid Strong oxidizing agents
Hazardous Decomposition Products Carbon and Nitrogen oxides formed under fire conditions

11. TOXICOLOGICAL INFORMATION

Oral LD₅₀ Rat: 5.886 mg/kg
Oral LD₅₀ Human: 86 µg/kg
Inhalation LC₅₀ No data available
Dermal LD₅₀ No data available
Intraperitoneal LD₅₀ Rat: 4 mg/kg
Intravenous LD₅₀ Rat: 1600 µg/kg
Intravenous LD₅₀ Human: 129 µg/kg
Skin Corrosion/Irritation No data available
Serious Eye Damage/ Eye Irritation Rabbit: Severe eye irritation, 1%/3D
Respiratory or Skin Sensitization No data available
Germ Cell Mutagenicity in vivo tests showed mutagenic effects
Carcinogenicity
No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive Toxicity
Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Teratogenicity
No data available

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
Vomiting, diarrhea, other stomach irregularities.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic Effects
No data available

Additional Information
RTECS: GH0700000

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)
UN Number: 1544
Proper Shipping Name: Alkaloids, solid, n.o.s. (Colchicine)
Class: 6.1
Packing Group: I
Reportable Quantity (RQ): N/A
Marine Pollutant: No
Poison Inhalation Hazard: No

IMDG
UN Number: 1544
Proper Shipping Name: ALKALOIDS, SOLID, N.O.S. (Colchicine)
Class: 6.1
Packing Group: I
EMS-Number: F-A, S-A
Marine Pollutant: No

IATA
UN Number: 1544
Class: 6.1
Packing Group: I
Proper Shipping Name: Alkaloids, solid, n.o.s. (Colchicine)

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:
Colchicine
CAS-Number [64-86-8]
Revision Date: 2008-11-03

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
Colchicine
CAS-Number [64-86-8]
Revision Date: 2008-11-03

Pennsylvania Right to Know Components
Colchicine
CAS-Number [64-86-8]
Revision Date: 2008-11-03

New Jersey Right to Know Components
Colchicine
CAS-Number [64-86-8]
Revision Date: 2008-11-03

California Prop. 65 Components
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm
Colchicine
CAS-Number [64-86-8]
Revision Date: 2008-06-17

EU Information
SDS in accordance with REACH 1907/2006
EC Number [200-598-5]
See GHS Information under Section 2, Hazard Identification

16. OTHER INFORMATION
Date of last revision: 2016-03-02

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.