

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name **Tricine**

Catalog Number CT03  
Brand Bioland Chemicals

Company Bioland Scientific LLC  
14925 Paramount Blvd., Suite C  
Paramount, CA 90723  
USA

Telephone 1-562-377-2668  
Fax 1-562-733-6008  
Emergency Phone # 1-562-377-2668

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : N-[Tris(hydroxymethyl)methyl]glycine

Formula: C<sub>6</sub>H<sub>13</sub>NO<sub>5</sub>

Molecular Weight : 179.17 g/mol

CAS-No.	EC-No.	Index-No.	%
5704-04-1			>99.5%

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

**OSHA Hazards:** No known OSHA hazards

#### HMIS Classification

**Health Hazard:** 0

**Flammability:** 0

**Physical hazards:** 0

#### NFPA Rating

**Health Hazard:** 0

**Fire :** 0

**Reactivity Hazard:** 0

#### Potential Health Effects

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** This material may cause eye irritation.

**Ingestion:** May be harmful if swallowed.

#### 4. FIRST AID MEASURES

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### **If inhaled**

Move person to fresh air immediately. If not breathing give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water for at least 15 minutes while removing contaminated clothing.

##### **In case of eye contact**

Flush eyes with plenty of water for at least 20 minutes.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING MEASURES

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

##### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. -Carbon oxides, nitrogen oxides (NOx)

#### 6. ACCIDENTAL RELEASE MEASURES

Avoid dust formation. Avoid breathing vapors, mist or gas.

##### **Environmental precautions**

Do not let product enter drains.

##### **Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

##### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

##### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

##### **Personal protective equipment**

##### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### **Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US)

or EN 166(EU).

#### **Skin and body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Hygiene measures**

General industrial hygiene practice.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

#### **Appearance**

Form: white crystalline powder

#### **Safety data**

pH: no data available

Melting point: 187 °C (369 °F)

Boiling point: no data available

Flash point: no data available

Ignition temperature: no data available

Lower explosion limit: no data available

Upper explosion limit: no data available

Water solubility: 89.6 g/l at 20 °C (68 °F) -completely

### **10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** no data available.

**Incompatibilities with Other Materials:** no data available.

**Hazardous Decomposition Products:** Nitrogen oxides, carbon oxides

### **11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:** no data available

**Oral LD50:** no data available

**Inhalation LC50:** no data available

**Dermal LD50:** no data available

**Irritation and corrosion:** no data available

**Sensitization:** no data available

#### **Carcinogenicity**

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product presents 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 presents 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 presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Signs and Symptoms of Exposure**

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

#### **Potential Health Effects**

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** May causes eye irritation.

**Ingestion** May be harmful if swallowed.

**12. ECOLOGICAL INFORMATION**

**Elimination information:** no data available

**Ecotoxicity effects:** no data available

**Further information on ecology:** no data available

**13. DISPOSAL CONSIDERATIONS**

**Product:** Dispose of in a manner consistent with federal, state, and local regulations.

**Contaminated packaging:** Dispose of as unused product.

**14. TRANSPORT INFORMATION**

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

**15. REGULATORY INFORMATION**

**OSHA Hazards:** No known OSHA hazards

**DSL Status:** The component of this product is not on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: 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 SARA Hazards

**Massachusetts Right To Know Components** No Components Listed

**Pennsylvania Right To Know Components**

N-[Tris(hydroxymethyl)methyl]glycine; CAS-No. 5704-04-1

**New Jersey Right To Know Components**

N-[Tris(hydroxymethyl)methyl]glycine; CAS-No. 5704-04-1

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

**16. Other information**

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