



## Material Safety Data Sheet

**Product:** 1M Tris (pH6.8)

**Date:** 01/03/2014

**Product code:** GPB02

### 1 IDENTIFICATION OF SUBSTANCE

**Product name:** 1M Tris (pH6.8)

**Application of the substance / the preparation:** Laboratory chemicals

**Manufacturer/Supplier:**

GMbiolab Co., Ltd.

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### 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Solution, consisting of the following components.

Component	CAS No.	Percent
Tris	77-86-1	5-15%
Hydrogen chloride	7647-01-0	1-5%

### 3. HAZARDS IDENTIFICATION

Occupational exposure presents little or no health hazard.

Potential Health Effects:

**Eye:** May cause eye irritation.

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

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

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

**National Fire Protection Association (NFPA ratings scale 0-4)**

Health = 1

Fire = 0

Reactivity = 0

**Hazardous Material Identification System (HMIS Ratings scale 0-4)**

Health = 1

Flammability = 0

Reactivity = 0

### 4. FIRST AID MEASURES

**Eye:** Flush with water in an eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses, clean before re-use. Obtain medical attention if symptoms develop (redness, itching, etc.).

**Skin:** Wash with plenty of soap and water. Obtain medical attention if symptoms develop (redness, itching, etc.). Remove contaminated clothes, wash before re-use.

**Inhalation:** Remove person to fresh air. Obtain medical attention unless effects are mild and temporary.

**Ingestion:** Rinse mouth with water, if conscious. Never give anything by mouth to an unconscious person.

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### 5. FIRE FIGHTING MEASURES

**Flashpoint Deg C:** Not available.

**Upper Flammable Limit %:** Not available.

**Lower Flammable Limit %:** Not available.

**Autoignition Temperature Deg C:** Not available.

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 6. ACCIDENTAL RELEASE MEASURES

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to Section 8 for personal protection equipment recommendations.

**Spill Cleanup:** Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

### 7. HANDLING AND STORAGE

Storage of some materials is regulated by federal, state, and/or local laws.

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

**Storage Procedures:** Keep container tightly closed in a dry and well-ventilated place.

### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

**Exposure Limits:** Not available

**Engineering Controls:** Area ventilation is generally adequate.

**Personal Protective Equipment:** Lab coat.

**Respiratory:** No respiratory protection will be needed under normal industrial operating conditions.

**Hand protection:** For prolonged or repeated contact use protective gloves.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **General Information**

Form: Fluid

Color: Colorless

Odor: Characteristic

#### **Change in condition**

Melting point/Melting range: 0°C (32°F)

Boiling point/Boiling range: 100°C (212°F).

Flash point: Not applicable

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Solubility in / Miscibility with Water: Fully miscible

### 10. STABILITY AND REACTIVITY

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** No dangerous decomposition products known.

**Special Remarks on Corrosivity:** Not available.

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** Not available



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

**Inhalation/Respiratory:** May be irritant if inhaled.

**Oral/Ingestion:** May cause respiratory tract irritation.

**Target Organs:** Not tested.

**Carcinogenicity:** Not available

### 12. Ecological Information

**Elimination information (persistence and degradability):** no data available

**Ecotoxicity effects:** no data available

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

### 13. DISPOSAL CONSIDERATIONS

**Water Disposal:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### 14. TRANSPORT INFORMATION

**RID/ADR:** Non-hazardous for road transport.

**IMDG:** Non-hazardous for sea transport.

**IATA:** Non-hazardous for air transport.

### 15. REGULATORY INFORMATION

**SARA (Superfund Amendment and Reauthorization Act):**

**Section 313 (40CFR372.65-Specific Toxic Chemicals listing):**

None of the ingredients is listed.

**WHMIS Classification:** Not Listed

**TSCA:** On TSCA Inventory

**Carcinogenicity categories**

**EPA (Environmental Protection Agency):**

None of the ingredients is listed.

**IARC (International Agency for Research on Cancer):**

None of the ingredients is listed.

**NTP (National Toxicology Program):**

None of the ingredients is listed.

### 16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.