



Material Safety Data Sheet

Product: 1.5M Tris (pH8.8)

Date: 01/03/2014

Product code: GPB01

1 IDENTIFICATION OF SUBSTANCE

Product name: 1.5M Tris (pH8.8)

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	1-4%

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.