

Material Safety Data Sheet

Product: 5X Protein Loading Buffer

Date: 05/30/2014

Product code: GM47-b/GM47-b-100 (depending on the quantity)

1 IDENTIFICATION OF SUBSTANCE

Product name: 5X Protein Loading Buffer

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
SDS	151-21-3	10
glycerol	56-81-5	50
DTT	3483-12-3	<1
EDTA	6381-92-6	<1
bromophenol blue	115-39-9	0.05
Tris	1927-31-7	<1

3. HAZARDS IDENTIFICATION

Information concerning particular hazards for human and environment:

The product does not have to be labeled due to the calculation procedure of international guidelines.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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

Health = 0

Fire = 0

Reactivity = 0

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

Health = 0

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.

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Inhalation: Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Obtain medical attention if any discomfort continues.

Ingestion: Do not induce vomiting. Give plenty of water, if conscious. If vomiting occurs naturally, wash mouth out. Obtain medical attention immediately.

5. FIRE FIGHTING MEASURES

The product is non-combustible.

Firefighting Techniques/Equipment: Carbon dioxide, dry chemical powder, or appropriate foam.

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: Keep closed or covered when not in use. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage Procedures: Store at 2-8°C.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits: No hazardous components

Engineering Controls: Area ventilation is generally adequate.

Personal Protective Equipment:

Skin: Gloves should be used as minimum hand protection.

Eyes: Wear safety glasses.

Hygiene measures: Wash at the end of each work shift and before eating, and using toilet. Wash promptly if skin or clothing becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state: Dark green liquid.

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

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

pH: Not tested

10. STABILITY AND REACTIVITY

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

Possibility of hazardous reactions:

No dangerous reactions known.

Materials to avoid:

No materials which may cause dangerous reactions.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Dermal/Skin: Irritant.

Inhalation/Respiratory: Irritant.

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Oral/Ingestion: Harmful if swallowed.

Target Organs: Not tested.

Carcinogenicity:

NTP: Not tested.

IARC: Not listed.

OSHA: Not regulated.

12. Ecological Information

No data available. Although not classified as environmentally hazardous, harmful effects cannot be excluded in the event of improper handling or disposal.

13. DISPOSAL CONSIDERATIONS

Recommendation for product: Dispose in accordance with local and national official environmental regulations.

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

Statutory instrument

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

Approved code of practice

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals.

Control of Substances Hazardous to Health Regulations.

Guidance notes

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended)

R: 36 - Irritating to eyes.

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.