
Material Safety Data Sheet



Revision Date: 1-June-2016

1. Product and Company Information

Product Name 6×Protein Loading Buffer
Cat. No. DL101
Company TransGen Biotech Co., Ltd.
Technical Phone +86-400-898-0321
Fax +86-10-57815011
E-mail Address trans@transgen.com.cn

2. Hazards Identification

Not hazardous

Potential Health effects

Eyes May cause eye irritation with susceptible persons.
Skin May cause skin irritation in susceptible persons.
Inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed.

3. Composition

Hazardous/Non-hazardous Components

| Chemical Name | CAS-No | Weight % |
|----------------------------------|-----------|----------|
| Glycerol | 56-81-5 | 10-30 |
| Sodium dodecyl sulfate | 151-21-3 | 1-5 |
| Tris(hydroxymethyl) aminomethane | 77-86-1 | 1-5 |
| Hydrochloric acid | 7647-01-0 | 1-5 |

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

4. First Aid Measures

General advice In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

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| | |
|--------------------|--|
| Skin contact | Wash off immediately with plenty of water for at least 15 minutes. |
| Inhalation | Move to fresh air. |
| Ingestion | Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure. |
| Notes to physician | Treat symptomatically. |

5. Fire-Fighting Measures

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|---|--|
| Suitable extinguishing media | Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical |
| Special protective equipment for firefighters | Wear self-contained breathing apparatus and protective suit. |

6. Accidental Release Measures

| | |
|---------------------------|---|
| Personal precautions | Use personal protective equipment. |
| Methods for cleaning up | Soak up with inert absorbent material. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. |

7. Handling and Storage

| | |
|-------------------------------|--|
| Precautions for safe handling | Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. |
| Conditions for safe storage | Keep in properly labeled containers. Keep in a dry, cool and well-ventilated place. |

8. Exposure Controls/Personal Protection

Exposure limits:

| Chemical Name | OSHA PEL (TWA) | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|----------------------------------|---------------------------|--------------------|-----------------|------------------|
| Glycerol | 10 mg/m ³ | none | none | none |
| Sodium Dodecyl Sulfate | none | none | none | none |
| Tris(hydroxymethyl) aminomethane | none | none | none | none |
| Hydrochloric acid | 5 ppm 8 mg/m ³ | none | none | none |

9. Physical and Chemical Properties

General Information

Form: liquid

Water solubility: soluble

Others: No information available.

10. Stability and Reactivity

| | |
|-------------------------|---|
| Stability | Stable under normal conditions |
| Materials to avoid | No information available |
| Hazardous decomposition | No information available |
| Products polymerization | Hazardous polymerisation does not occur |

11. Toxicological Information

Acute toxicity - Component Information

| Chemical Name | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|----------------------------------|------------------------|---------------------------|-------------------------------|
| Glycerol | 12600 mg/kg (Rat) | No data available | No data available |
| Sodium Dodecyl Sulfate | 1288 mg/kg (Rat) | No data available | >3900 mg/m ³ (Rat) |
| Tris(hydroxymethyl) aminomethane | 5900 mg/kg (Rat) | No data available | No data available |
| Hydrochloric acid | 700 mg/kg (Rat) | No data available | 3124 ppm (Rat) |

Principle Routes of Exposure/ Potential

Health effects

Eyes

May cause eye irritation with susceptible persons.

Skin

May cause skin irritation in susceptible persons.

Inhalation

May be harmful by inhalation.

Ingestion

May be harmful if swallowed.

Carcinogenic effects

No information available.

Mutagenic effects

No information available.

Reproductive toxicity

No information available.

Sensitization

No information available.

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12. Ecological Information

| | |
|---------------------|---------------------------|
| Ecotoxicity effects | No information available. |
| Mobility | No information available. |
| Biodegradation | No information available. |
| Bioaccumulation | No information available. |

13. Disposal Considerations

Dispose of in accordance with local regulations.

14. Transport Information

| | |
|----------------------|---|
| IATA | |
| Proper shipping name | Not classified as dangerous in the meaning of transport regulations |
| Hazard class | none |
| Subsidiary Class | none |
| Packing group | none |
| UN-No | none |

15. Regulatory Information

| | |
|---------------------------|----------|
| International Inventories | Complies |
|---------------------------|----------|

16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE

End of Safety Data Sheet

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