

1 Identification

- Product identifier
- Trade name: **Mini-Protein TGX Gels 4-15%, 4-20%**
- Catalog or product number:
4561093, 4561096, 4561091, 4561083, 4561086, 4561081, 4561083S, 4561093S, 10016980, 10016981, 10016982, 10016983, 4561081S, 10019235, 4561086S, 10019236, 4561091S, 10019237, 4561096S, 10019238, 4561085, 4561085S, 4561089, 4561089S, 4561099, 4561099S, 4561095, 4561095S, 4561101, 4561103, 4561104, 4561105, 4561106, 4561109, 10017477, 10017478, 4561101EDU, 4561103EDU, 4561105EDU, 4561106EDU, 4561109EDU
- Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Bio-Rad Laboratories, Life Science Group
2000 Alfred Nobel Drive
Hercules, California 94547
(510)741-1000
- Information department:
Technical services, customer support
lsq_techserv_us@bio-rad.com
- Emergency telephone number:
1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.
510-741-1000
1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT.

2 Hazard(s) identification

- Classification of the substance or mixture
The product is not classified according to the Globally Harmonized System (GHS)
- Label elements
- GHS label elements Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Additional information: Contact with acids may cause release of toxic gases
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
 - Description: Mixture of the substances listed below with non-hazardous additions.
 - Listing of dangerous and non-hazardous components:
- | | | |
|------------|--|--------|
| 25034-56-6 | Polyacrylamide-co-methylene-bis-acrylamide | 5-10% |
| 56-81-5 | glycerol | 2.5-5% |

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Proprietary Reagent CP 11	(Contd. of page 1)
Proprietary Reagent K	2.5-5%
Proprietary Reagent EB II	1.0-2.5%
7732-18-5 water	1.0-2.5%
	50-100%

Additional information For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

- Description of first aid measures
- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.
- Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- Handling
- Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles: According to product specification

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- Information about storage in one common storage facility. Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data, see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:

56-81-5 glycerol

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction
TLV TLV withdrawn-insufficient data human occup. exp.

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
- Personal protective equipment
- General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- Protection of hands: Protective gloves.
- Material of gloves Synthetic gloves
- Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses

9 Physical and chemical properties

- Information on basic physical and chemical properties

General Information
Appearance: Solid
Form: Colorless
Color: Odorless
Odor: Not determined.
Odour threshold: 6.5
pH-value at 20 °C:

Change in condition
Melting point/Melting range: undetermined
Boiling point/Boiling range: undetermined
Flash point: Not applicable
Flammability (solid, gaseous): Not determined.
Ignition temperature: 400 °C

Decomposition temperature: Not determined.
Auto igniting: Product is not selfigniting.

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Trade name: **Mini-Protean TGX Gels 4-15%, 4-20%**

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

Explosion limits:
Lower: Not determined.
Upper: Not determined.

Vapor pressure at 20 °C: 23 hPa
Density: Not determined
Relative density: Not determined.
Vapour density: Not applicable.
Evaporation rate: Not applicable.

Solubility in / Miscibility with Water: Fully miscible
Partition coefficient (n-octanol/water): Not determined.

Viscosity: dynamic: Not applicable.
kinematic: Not applicable.

Solvent content: Organic solvents: 0.0 %
Water: 82.0 %

Solids content: 22.2 %
Other Information: No further relevant information available.

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect: on the skin: No irritant effect
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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Trade name: Mini-Protean TGX Gels 4-15%, 4-20%

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- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.
- **NTP (National Toxicology Program)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.
- **Target organs:** Not applicable.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA**
Void
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA**
Void
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
Void
- **Class**

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Trade name: Mini-Protean TGX Gels 4-15%, 4-20%

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- **Packing group**
- **DOT, ADR, IMDG, IATA**
Void
- **Environmental hazards:**
- **Marine pollutant:**
No
- **Special precautions for user**
Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable.
- **Transport/Additional information:**
Not dangerous according to the above specifications.
- **UN "Model Regulation":**
-

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA (Superfund Amendments and Reauthorization Act of 1986 - USA)**
- **Section 302/304 (40CFR355.30 / 40CFR355.40):**
None of the ingredients is listed.
- **Section 313 (40CFR372.65):**
None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.
- **Carcinogenic categories**
- **EPA (Environmental Protection Agency)**
None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.
- **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

- **National regulations**
- **Technical instructions (air):**

Class	Share in %
INK	2.5-5

- **Water hazard class:** Water hazard class 1 (Self-assessment); slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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Safety Data Sheet
acc. to OSHA HCS

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Printing date 06/16/2015

Reviewed on 06/16/2015

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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.

- **Department issuing SDS:** Environmental Health and Safety.

- **Contact:**
Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

- **Date of preparation / last revision / last revision:** 06/16/2015 / -

- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- **IMDG:** International Maritime Code for Dangerous Goods

- **DOT:** US Department of Transportation

- **IATA:** International Air Transport Association

- **ACGIH:** American Conference of Governmental Industrial Hygienists

- **EINECS:** European Inventory of Existing Commercial Chemical Substances

- **ELINCS:** European List of Notified Chemical Substances

- **CAS:** Chemical Abstracts Service (division of the American Chemical Society)

- *** Data compared to the previous version altered.**

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