

SAFETY DATA SHEET

Version 1

Section 1: Identification of Product and Company

1.1 Product Identifiers

Product Name: Immunostaining Buffer
Manufacturer: ClearLight Biotechnologies

1.2 Relevant identified uses of substance and uses advised against

Identified uses: Laboratory reagent, For Research Use Only.

1.3 Details of the supplier of the safety data sheet

Company: ClearLight Biotechnologies, Inc.
428 Oakmead Parkway
Sunnyvale, CA 94085
Telephone: (800) 251-8905
Email address: contact@clearlightbiotech.com

1.4 Emergency telephone number

Emergency phone: (800) 251-8905

Section 2: Hazards identification

2.1 Classification of substance

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Based on available data, the classification criteria are not met

2.2 GHS Label elements, including precautionary statements

Pictograms: None Required – Precautionary for 10X concentrated solution.



Signal Word: None Required

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

Section 3: Composition/information on ingredients

3.1 Substance

Component	CAS Number	Concentration
TRIS-buffered saline (TBS, 10X) pH 7.4, for Western blot		0-40% ¹
Triton™ X-100	9002-93-1	0-40% ²

^{1,2} - Exact concentrations withheld as trade secrets

Section 4: First Aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further Information

No data available.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves. Take off contaminated clothing and wash before reuse. Collect spillage.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Aside from the uses mentioned in section 1.2, no other specific uses are specified.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Components with limit values that require monitoring at the workplace: Not required.

8.2 Exposure controls

Personal protective equipment

Skin protection

Handle with gloves and dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use or handling.

Recommended glove material: Nitrile rubber

Advisory recommendation only.

Eye protection

Tightly fitting safety goggles. Faceshield (8-inch minimum).

Body Protection

Lightweight protective clothing.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear liquid
Odor:	No data available
Odor Threshold:	No data available
pH as supplied:	Not applicable
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	251 °C (484 °F) - closed cup
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available

Vapor pressure: < 1.33 hPa at 20 °C (68 °F)
Vapor density: No data available
Relative density: No data available
Water solubility: No data available
Partition coefficient: No data available
Auto-ignition temperature:
No data available
Decomposition temperature:
No data available
Viscosity: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2 Other safety information

No data available.

Section 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides.

Other decomposition products: No data available.

In the event of fire: see section 5.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity



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Product Information

Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 5,000 mg/kg.
Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 5,000 mg/kg.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available



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To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not Conducted.

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Section 14: Transport information

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.



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Section 15: Regulatory information

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other information

Further Information:

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