

# Safety Data Sheet

Version 5.0  
Revision Date 11/07/2019



## 1. Product and Company Identification

Product Name	ELISA Blocking Buffer
Catalog Number	E104
Supplier	Bethyl Laboratories, Inc. 25043 West FM 1097 Montgomery, TX 77356
Telephone	800-338-9579
Fax	866-597-6105
Product Use	For Research Use Only, Not for Diagnostic Use.

## 2. Hazards Identification

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

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

### GHS Label elements

Pictogram



Signal word

Warning

Hazard Statements

H315

Causes skin irritation

H319

Cause serious eye irritation

H335

May cause respiratory irritation.

Precautionary Statement(s)

P261

Avoid breathing dust/fume/gas/mist/vapours/spray

P264

Wash skin thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area

P280

Wear protective gloves, eye protection/face protection.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

P304 + P340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER or doctor/ physician if you feel unwell

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P362

Take off contaminated clothing and wash before reuse.

P403 + P233

Store in a well-ventilated place. Keep container tightly closed. \

P405

Store locked up.

P501

Dispose of contents/ container to an approved waste disposal plant.

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### 3. Composition/Information on Ingredients

#### Hazardous Ingredients

Chemical name	Classification	Concentration
Tris (hydroxymethyl) aminomethane CAS no. 77-86-1 EC No. 201-064-4	Skin Irritation 2, H315; Eye Irritation 2, H319	>=10 – <30 %

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### 4. First Aid Measures

<b>General Advice</b>	If symptoms persist, call a physician.
<b>If swallowed</b>	Rinse mouth with water provided person is conscious. Consult a physician.
<b>Skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
<b>Eye exposure</b>	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
<b>If inhaled</b>	If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

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### 5. Fire-Fighting Measures

#### Extinguishing Media

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

#### Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Sodium oxides

#### Special protective equipment for firefighters

Wear self-contained breathing apparatus if necessary.

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### 6. Accidental Release Measures

#### Personal precautions

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

#### Environmental precautions

Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### 7. Handling and Storage

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

#### Conditions of safe storage

Keep container tightly closed and upright to prevent leakage.

Recommended storage temperature is 2 - 8°C.

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## 8. Exposure Controls/Personal Protection

Contains no substance with occupational exposure limit values

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

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## 9. Physical and Chemical Properties

### Appearance

Form powder

### Safety Data

pH	no data available
Melting point/ Freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition point	no data available
Auto-ignition Temperature	no data available

Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	no data available
Water Solubility	no data available
Partition coefficient n-octanoic/water	no data available
Relative vapor density	no data available
Evaporation rate	no data available

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## 10. Stability and Reactivity

### Reactivity

No data available

### Chemical stability

Product is stable under normal conditions of storage and use.

### Possibility of hazardous reactions

No data available

### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents, Strong acids

### Hazardous decomposition products

No data available

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## 11. Toxicological Information

<b>Acute toxicity</b>	No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity</b>	Not listed by IARC, ACGIH, NTP, OSHA
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity single exposure</b>	No data available
<b>Specific target organ toxicity repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available

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## 12. Ecological Information

<b>Toxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>PBT and vPvb assessment</b>	No data available
<b>Other adverse effects</b>	No data available

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## 13. Disposal Considerations

### Product

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

### Contaminated packaging

Dispose of as unused product.

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## 14. Transportation Information

No special transport regulations

DOT (US) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

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## 15. Regulatory Information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### 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

No SARA Hazards

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

Sodium chloride CAS-No. 7647-14-5

Tris (hydroxymethyl) aminomethane CAS-No. 77-86-1

Serum Albumin CAS-No. 9048-46-8

### New Jersey Right To Know Components

Sodium chloride CAS-No. 7647-14-5

Tris (hydroxymethyl) aminomethane CAS-No. 77-86-1

Serum Albumin CAS-No. 9048-46-8

**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.

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**16. Other Information**

For research use only.

Read instructions for use before using the product. Observe the general safety regulations when handling chemicals.

The above information is believed to be correct but does not purport to be all-inclusive and is intended to be used only as a guide. Bethyl Laboratories, Inc. shall not be liable or responsible in any way for use of either this information or the material supplied. Disposal of hazardous material may be subject to federal, state, or local laws or regulations.

Prepared by:                      Safety Department  
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