

Safety Data Sheet

Version 3.0
Revision Date 07-14-2014



1. Product and Company Identification

Product Name	ELISA Starter Accessory Kit II
Catalog Number	E103
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

Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

GHS Label elements

Pictogram



Signal word

Warning

Hazard Statements

H315	Causes skin irritation
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280	Wear protective gloves/eye protection/face protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

3. Composition/Information on Ingredients

Component	Classification	Concentration
Tris (hydroxymethyl) aminomethane (ELISA Wash Solution and ELISA Blocking Buffer)		
CAS No. 77-86-1	Skin Irrit. 2; STOT SE 3, H315, H319, H335	10 – 30%
Trade Secret (ELISA Coating Buffer)		
	Eye Irrit. 2A, H319	30 - 60%

Refer to component SDS for additional information

4. First Aid Measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin contact	Wash off with soap and plenty of water. Consult a physician.
Eye exposure	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If inhaled	Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

5. Fire-Fighting Measures

Conditions of flammability

Not flammable or combustible.

Extinguishing Media

Water, alcohol resistant foam, carbon dioxide, or dry chemical

Special protective equipment for firefighters

Wear self contained breathing apparatus if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Sodium oxides

Refer to component SDS for additional information

6. Accidental Release Measures

Personal precautions

If spill occurs, wear protective gloves and clean up the spill area with inert absorbent material. Avoid post-cleanup contact of chemical with skin, eyes or inhalation.

Environmental precautions

Do not allow to enter drains.

Methods and materials for containment and cleaning up

Dispose of clean-up waste in suitable closed containers

7. Handling and Storage

Conditions of safe storage

Keep container tightly closed and upright to prevent leakage.

8. Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye/face 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.

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).

Hygiene measures

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

9. Physical and Chemical Properties

Refer to component SDS for additional information

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

10. Stability and Reactivity

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

Materials to avoid

Strong oxidizing agents, Strong acids, bases

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Hydrogen chloride gas, Sodium oxides

Refer to component SDS for additional information.

11. Toxicological Information

Acute toxicity	No data available
Skin contact	May cause irritation.
Eye contact	May cause irritation.
Germ Cell Mutagenicity	No data available
Carcinogenicity	Not listed by IARC, ACGIH, NTP, OSHA
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
Potential Health Effects	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

12. Ecological Information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

PBT and vPvb assessment No data available

Other adverse effects No data available

13. Disposal Considerations

Dispose of material in accordance with federal, state, and local regulations.

14. Transportation Information

No special transport regulations

DOT (US) Not dangerous goods

ADR (road)/RID(rail) Not dangerous goods

ICOA/IATA (air) Not dangerous goods

15. Regulatory Information

Refer to component SDS for additional information

OSHA Hazards

Irritant

SARA 302 Components

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

SARA 313 Components

SARA 313: 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

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium Chloride	7647-14-5	
Tris (hydroxymethyl) aminomethane	77-86-1	
Serum albumin	9048-46-8	-
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Sodium Chloride	7647-14-5	
Tris (hydroxymethyl) aminomethane	77-86-1	
Serum albumin	9048-46-8	-
2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	1185-53-1	
Potassium Chloride	7447-40-7	

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.

16. Other Information

Kit Components:

Microtiter Plates	E105	No known OSHA hazards
ELISA Coating Buffer	E107	Irritant
ELISA Wash Buffer	E106	Irritant
ELISA Blocking Buffer	E104	Irritant
TMB One-component HRP Substrate	E102	No known OSHA hazards

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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