

Safety data sheet for ELISA Kits

1 – Identification of the substance / preparation and of the company / undertaking

Product Name ELISA Kits
Supplier Identification Life Diagnostics, Inc.
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USA
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2 – Composition / information on hazardous ingredients

Component	Chemical Name	Conc	CAS#	EC#	Classification (pure ingredient)	Classification (kit)
Wash Buffer Concentrate	-	-	-	-	Not hazardous	N/A
Coating Antibody/ Detection Antibody	-	-	-	-	Not hazardous	N/A
Assay Diluent	-	-	-	-	Not hazardous	N/A
TMB One-Step Substrate Reagent	3,3',5,5'- tetramethylbenzidine	-	54827-17-7	259-364-6	Xi: R36/37/38	N/A
Stop Solution	Hydrochloric acid solution	1N	7647-01-0	231-595-7	C:R34, C:R29	C:R34, C:R29

3 – Hazards Identification

Classification of Product **C: Corrosive**
R34 – Causes burns
R20 – Harmful by inhalation

4 – First aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
Eye Contact Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if necessary.
Skin contact Flush skin with plenty of soap and water for at least 15 minutes removing contaminated clothing and shoes. Get medical aid if necessary.
Inhalation Remove person from exposure and into fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. Get medical aid if necessary.
Ingestion Do NOT induce vomiting. Rinse mouth with water and seek medical aid if necessary.

5 – Firefighting measures

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special protective equipment for fire-fighters Wear self-contained breathing apparatus for firefighting if necessary

6 – Accidental release measures

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Clean up spills properly. Do not allow to enter drains.
Disposal	Keep in suitable, closed containers for disposal

7 – Handling and Storage

Precautions for safe handling	Avoid inhalation. Avoid prolonged or repeated exposure. Avoid contact with skin and eyes. Normal measures for fire prevention.
Conditions for safe storage	Store in cool place. 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.

8 – Exposure controls/ Personal Protection

Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.
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Hand protection	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
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Eye Protection	Tightly fitting safety goggles. Face shield.
Hygiene measures	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Skin and body protection	Choose protection according to the amount and concentration of the dangerous substance at the work place.
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9 – Physical and chemical properties.

Form	Liquid
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10- Stability and Reactivity

Chemical Stability	Stable under normal conditions.
Hazardous decomposition products	Hydrogen chloride gas, Thermal decomposition can lead to release of irritating gases and vapors
Possibility of hazardous reactions	None under normal processing.

11 – Toxicological Information

Potential health effects	
Inhalation	May be harmful if inhaled. Extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	Harmful if swallowed. Causes burns
Skin	May be harmful if absorbed through the skin. Irritating to skin
Eyes	Causes eye burns

Signs and Symptoms of exposure No information available.

12 – Ecological Information

Ecotoxicological effects No data available

13 – Disposal Considerations

Product Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Contaminated packaging Dispose of as unused product.

14 – Transport information

This product qualifies for the Excepted Quantities scheme

15 – Regulatory Information

Classification and labelling according to EU Directives

Symbol C: Corrosive

R-phrases R34 – Causes Burns.

S-phrases S26 - In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 – Other Information

MSDS revised 10/01/2017

Disclaimer: The information contained in the Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions.

Life Diagnostics, Inc. shall not be held responsible for any damage resulting from the use of the above product or the information contained in this material safety datasheet.