MSDS ELISA Kits

For laboratory research use only, not for diagnostics or therapeutics in humans or animals

Contacts:

FIVEphoton Biochemicals

4907 Morena Blvd, Ste 1403

San Diego, CA 92117

Tel: 800.462.4507

Fax: 858.345.5291

Email: info@fivephoton.com

Website: www.fivephoton.com

Storage: 4°C

Safety: Stop solution contains sulfuric acid. Avoid ingestion, inhalation, skin and eye contact.

Protection: Wear gloves, eye protection and lab coat during all procedures.

Composition / information on hazardous ingredients

Component	Chemical name	Conc.	CAS#	EC#	Classification (pure ingredient)	Class. (kit)
Standard Peptide	Recombinant protein	-	-	-	Not hazardous	NA
Standard Diluent Buffer	Sodium azide	0.1%	26628-22-8	247-852-1	T+: R28,R38; N: R50/53	Xn
Sample Diluent Buffer	Sodium azide	0.1%	26628-22-8	247-852-1	T+: R28,R38; N: R50/53	NA
HRP-Conjugate Reagent	-	-	-	-	Not hazardous	NA
30xWash Buffer	-	-	-	-	Not hazardous	NA
Chromogen Solution A						
Chromogen Solution B	TMB	<20% (w/v)	54827-17-7	259-364-6	Xi: R36/37/38	NA
Stop Reagent	Sulfuric acid	0.5M	7664-93-9	231-639-5	C: R35	

First Aid Measures

Hazards Identification

Ingestion

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Skin

May cause skin irritation.

Eyes

Dust may cause mechanical irritation.

Exposure Controls/Personal Protection

Personal Protection

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirator

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Fire Fighting Measures

Fire Fighting

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. To extinguish fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

Accidental Release Measures

Small Spill/Leaks

Clean up spills immediately, using the appropriate protective equipment. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Provide ventilation.

Stability and Reactivity

Stability

Stable under normal temperatures and pressures.

Incompatibilities

Strong oxidizing agents.

Decomposition

Hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen.

Stop Solution MSDS (1N Sulfuric Acid)

3 - Hazards identification

Corrosive.

Information concerning to particular hazards to man and environment: causes burns.

4 - First aid measures

General information

Immediately remove any clothing soiled by the product.

Inhalation

In case of unconsciousness place patient stably in side position for transportation.

Skin contact

Immediately wash with plenty of water and soap and rinse thoroughly.

Eye contact

Rinse opened eye for several minutes under running water. Then consult a physician.

Ingestion

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Do not induce vomiting; if conscious, give water, milk or milk magnesia. Call for a physician immediately.

5 - Fire fighting measures

Suitable extinguishing media

Use dry chemical or carbon dioxide. Do not use water.

Special protective equipment for fire-fighters

No special measures required.

6 - Accidental release measures

Personal precautions

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Prevent seepage into sewage system, work pits and cellars. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods for cleaning / collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13.Ensure adequate ventilation.

7 - Handling and storage

Handling

Information for safe handling: Avoid contact with eyes, skin and clothing. Do not breath vapor. Keep container tightly closed.

Information about fire - and explosion protection: No special measures required.

Storage

Keep in tightly closed container. Store separately and away from flammables and combustible materials.

8 - Exposure controls / personal protection

Additional information about design of technical facilities: No further data; see section 7.

Ingredients with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Respiratory protection

Not required.

Protection of hands

Protective acid resistant gloves.

Eye Protection

Tightly sealed goggles.

9 - Physical and chemical properties

Appearance

Form: liquid

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Color: Colorless

Odor: Odorless

Safety data

Melting point/Melting range: N/A

Boiling point/Boiling range: N/A

Flash point: Not applicable

Auto ignition temperature: N/A

Danger of explosion: Product does not present an explosion hazard

Density: N/A

Solubility in / Miscibility with

water : fully miscible

10 - Stability and reactivity

Thermal decomposition

No decomposition if used according to specifications

Reactivity and under what conditions

A violent exothermic reaction occurs with water. Avoid contact with alkaline solutions, metals, metals powder, chlorates, nitrates, strong oxidizing or reducing materials, and combustible organic materials.

Hazardous decomposition products (concentrated SULFURIC ACID)

Toxic fumes of oxides of sulfur when heated to decomposition. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.

11 - Toxicological information

Route of entry

Skin Contact, Eye contact, Inhalation, Ingestion.

Effects of acute exposure to Product

Contact with skin or eyes may cause severe irritation or burns. Vapors may be irritating to eyes, nose, and throat. Poison may be fatal if swallowed, causes burns.

Effects of chronic exposure to Product

Long term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

Exposure Limits: N/A

Irritancy: N/A

Sensitization To Product: N/A

Carcinogenicity: N/A

Terratogenicity:N/A

Reproductive Toxicity: N/A

Mutagenicity: N/A

Synergistic Products: N/A

12 - Ecological information

General Notes

Hazardous for water.Do not allow product to reach ground water, water course or sewage system. Must not reach

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sewage water or drainage ditch undiluted or uneutralized. Danger to drinking water even if small quantities leak into the ground.

13 - Disposal considerations

Waste disposal

Dispose of in accordance with local official environmental regulations.

14 - Transport information

DOT

Transport information

DOT regulations:

Hazard class: - Non-hazardous for transport.

Land transport ADR/RID (cross-border)

ADR/RID class: N/A

Maritime transport IMDG:

IMDG Class: N/A

Marine pollutant: N/A

Air transport ICAO-TI and IATA-DGR:

- ICAO/IATA Class: N/A1

· Precautions relating to product's transport/conveyance: N/A

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