

Material Safety Data Sheet

Scrub Typhus IgM ELISA

Section 1: Product and Company Identification

Catalog No: 8405-25
 Synonyms: N/A
 Intended Use: Laboratory Use
 Product Description: Scrub Typhus Detect IgM ELISA System

Section 2: Hazard Identification

Emergency Overview:

Additional Toxicity information is Section 11.

Potential Health Effects (Acute and Chronic):

- Inhalation:** May be irritating to mucous membranes and respiratory tract. May be harmful if inhaled.
- Ingestion:** May be harmful if swallowed.
- Skin Contact:** May be irritating to skin. Sulfuric acid causes severe burns.
- Eye Contact:** May be irritating to eyes. Sulfuric acid causes severe burns.
- Aggravated Medical Condition by Exposure:** No information found.
- Carcinogenicity:** High levels of exposure to sulfuric acid mists and mercury compounds have shown carcinogenic effects.
- Sensitization:** No information found.

Section 3: Composition/Information On Ingredients

Component	Case#	SARA
1. Scrub typhus ELISA Plate, strippable, 96 wells		
2. Sample Dilution Buffer for Scrub Typhus, PH 7.2-7.6 Tris-HCl Buffered Solution Proclin (0.05%) Tweed 20 (≤0.05%)	9005-64-5	No
3. Scrub typhus IgM Negative Control Heat-inactivated positive serum		
4. Scrub typhus IgM Positive Control Heat-inactivated positive serum Thimersal (0.01%)	54-64-8	Yes
5. Ready to Use Enzyme conjugate-HRP for Scrub typhus IgM, PH 7.2-7.6 Tris-HCl Bufferd Solution Anti Human IgM mAb with horseradish peroxidase Proclin (0.05%) Tween 20 (≤0.05%)	9005-64-5	No
6. 10X Wash Buffer, PH 6.7-7.1 Phosphate buffered saline (10X) Tween 20 (1.0%)	9005-64-5	No
7. EnWash, PH 7.2-7.6 Phosphate buffered saline Tween 20 (≤0.05%)	9005-64-5	No

8.	Liquid TMB Substrate, PH 3.3-3.8 3,3',5,5'- Tetramethylbenzidine (≤0.05%) Hydrogen peroxide (≤0.05%) Citric-acid citrate buffer	54827-17-7 7722-84-1	No No
9.	Stop Solution Sulfuric Acid, aqueous (1N) Corrosive	7664-93-9	No

Section 4: First Aid Measures

Emergency First Aid

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

- Inhalation:** Remove to fresh air: give artificial respiration if breathing has stopped.
- Ingestion:** Wash out mouth with water provided person is conscious; get immediate medical attention.
- Skin:** Immediately flush thoroughly with large amounts of water. Remove contaminated clothing and wash before reuse. Seek medical attention.
- Eyes:** Immediately flush eyes thoroughly with water for at least 15 minutes. Seek medical attention.

Section 5: Fire Fighting Measures

- Extinguishing Media:** Use dry chemical powder.
- Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.
- Fire & Explosion Hazards:** Emits toxic fumes under fire conditions.

Section 6: Accidental Release Measures

Spill Response

Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Contain the release and eliminate its source, if this can be done without risk. Spill material should be disposed of accordingly (See section 12). Comply with all federal, state and local regulation on reporting releases. Refer to regulatory Information for reportable quantity and other regulatory data.

Section 7: Handling and Storage

Handling

Avoid inhalation and contact with skin, eyes, and clothing. Avoid prolonged and repeated exposure. Components containing human serum must be treated as biohazardous and handled following Universal Precautions.

Storage

Keep container tightly closed and protected against damage. Store under appropriate conditions away from incompatible chemicals.

Section 8: Exposure Control/Personal Protection

Safety Equipment

Safety showers and eye wash station.

Personal Protective Equipment

Engineering and/or administrative controls should be implemented to reduce exposure. Protective gloves must be worn to prevent skin contact. Safety glasses with side shields must be worn at all times. Impervious protective clothing should be worn to prevent skin contact.

Work and Hygiene Practices

Wash thoroughly after handling. Wash contaminated clothing before reuse.

Exposure Guidelines

OSHA-PEL:

Component	TWA		STEL		CL		Skin
	PPM	MG/M ³	PPM	MG/M ³	PPM	MG/M ³	
Hydrogen Peroxide	1						
Mercury		0.01					
Sulfuric Acid		1					

ACGIH-TLV:

Component	TWA		STEL		CL		Skin
	PPM	MG/M ³	PPM	MG/M ³	PPM	MG/M ³	
Mercury		0.1					X

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

Section 9: Physical and Chemical Properties

Boiling Point (C 760 mmHg)	N/A
Melting Point (C)	N/A
Specific Gravity (H ₂ O=1)	N/A
PH	See Section 2
Flash Point	N/A
Flammable Limits LFL (%)	N/A
Flammable Limits LEL (%)	N/A
Vapor Pressure (mm Hg)	N/A
Percent Volatile by vol (%)	N/A
Vapor Density (Air=1)	N/A
Evaporation Rate (BuAc=1)	N/A
Solubility in water	N/A
Appearance	N/A

N/A= Not Available

Section 10: Stability and Reactivity

Stability

Stable: Stable
 Incompatibles: Strong oxidizing agents, bases, brass, iron, finely powdered metals
 Conditions to avoid: Incompatibles

Hazardous Decomposition

Carbon dioxide, Carbon monoxide, Sulfur oxide, Hydrogen sulfide, Mercury, Mercury oxides, Nitrogen oxides

Section 11: Toxicological Information

Oral Rat LD50 N/A
 Inhalation Rat LD50 N/A
 Skin Rabbit LD50 N/A

Section 12: Ecological Information

No data available.

Section 13: Disposal Considerations

Contact a licensed professional waste disposal company for disposal of this material. Precious metals should be recovered. Observe all federal, State, and local environmental regulation.

Section 14: Transport Information

DOT

Proper shipping Name: None
 This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name: None
 This substance is considered non-hazardous for transport.

Section 15: Regulatory Information

Component	SARA TPQ (lbs)	SARA DeMininis (%)	CERCLA RQ(lbs)
Mercury Compound	10	No Exemption	1000
Sulfuric Acid			

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

Section 16: Other Information

Comments

None

NFPA Hazard Ratings

Health	N/A
Flammability	N/A
Reactivity	N/A
Special Hazards	N/A

N/A= Not Available

N/E = None Established

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