



Material Safety Data Sheet

Japanese Encephalitis IgG

ELISA

IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: Japanese Encephalitis IgG ELISA
Catalog No: 8402-25
Synonyms: N/A
Product Description: Diagnostic Kit for Japanese Encephalitis Infection
Intended Use: Laboratory Use **Kit Storage:** 2-8°

SECTION 1. HAZARD IDENTIFICATION

- **Classification of the substance or mixture:**
 The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.
- **Label elements:**
 - **GHS label elements:** Non-Regulated Material
 - **Hazard pictograms:** Non-Regulated Material
 - **Signal word:** Non-Regulated Material
 - **Hazard statements:** Non-Regulated Material
- **Unknown acute toxicity:**
 - 0 % of the mixture consists of component(s) of unknown toxicity:**
 Coated Microtiter Strips, Negative Control, EnWash, 10X Wash Buffer, Liquid TMB Substrate, Stop Solution
 - 5 % of the mixture consists of component(s) of unknown toxicity:**
 Ready to Use Conjugate-HRP
 - 8 % of the mixture consists of component(s) of unknown toxicity:**
 Sample Dilution Buffer
 - 20 % of the mixture consists of component(s) of unknown toxicity:**
 Positive Control

· **Classification system:**
NFPA ratings (scale 0-4)

HMIS HEALTH	0
HMIS FIRE	0
HMIS REACTIVITY	0

HIMIS-ratings: (scale 0-4)

HMIS HEALTH	0
HMIS FIRE	0
HMIS REACTIVITY	0

Hazard(s) not otherwise classified (HNOC): None known

SECTION 2. Composition/Information on Ingredients

Coated Microtiter Strips:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material

Sample Dilution Buffer:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material

Positive Control:

- **Description:** Mixture: consisting of non-regulated material.

· **Dangerous Components:** Non-Regulated Material

Negative Control:

· **Chemical characterization: Substance**

· **CAS No. Description**

Human Serum (normal)

Ready to Use Conjugate Diluent:

· **Description:** Mixture: consisting of non-regulated material.

· **Dangerous Components:** Non-Regulated Material

Liquid TMB Substrate:

· **Description:** Mixture: consisting of non-regulated material.

· **Dangerous Components:** Non-Regulated Material

EnWash:

· **Description:** Mixture of substances listed below with non-hazardous additions.

· Non-hazardous Components:		
7732-18-5	Highly Purified Water	90-99%

10x Wash Buffer:

· Dangerous Components:		
CAS: 7647-14-5 RTECS: VZ4725000	Sodium Chloride ⚠ STOT SE 3, H335	5-10%
CAS: 7558-79-4 RTECS: WC 4500000	Sodium Phosphate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335-H336	≤2.5%

Stop Solution:

· **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:			
7664-93-9	Sulfuric Acid	⚠ Skin Corr. 1A, H314	2-12%

SECTION 3. FIRST AID MEASURES

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:** N/A
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

SECTION 4. FIRE-FIGHTING MEASURES

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
 - **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

SECTION 5. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures:** Not required.

- **Environmental precautions:** Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose of the collected material according to regulations.
Absorb with liquid-binding material (i.e sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections:**
See Section 6 for information on safe handling.
See Section 7 for information on personal protection equipment.
See Section 12 for disposal information.

SECTION 6. HANDLING AND STORAGE

- **Precautions for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

SECTION 7. EXPOSURE CONTROL / PERSONAL PROTECTION

- **Additional information about design of technical systems:** No further data; see section 6.
- **Control parameters:**

Stop Solution:

· Components with occupational exposure limits:	
7664-93-9 Sulfuric Acid	
PEL	Long-term value: 1mg/m ³
REL	Long-term value: 1mg/m ³
TLV	Long-term value: 0.2* mg/m ³ *as thoracic fraction

Other Components:

- **Components with occupational exposure limits:** The rest of the product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
 - **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
 - **Breathing equipment:** Not required.
 - **Protection of hands:**



Protective gloves.

- **Material of gloves:** Nitrile rubber, NBR.
- **Penetration time of glove material:** The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.
- **Eye protection:**



Goggles recommended during refilling.

SECTION 8. PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties**



	Coated microtiter strips	Sample Diluent Buffer	Positive Control	Negative Control	Ready to Use Conjugate-HRP	EnWash	10X Wash Buffer	Liquid TMB substrate	Stop Solution
Form	Strip	Liquid							
Color	Colorless	Clear							
Odor	Odorless			Slight	Odorless				
Odor threshold	Not determined								
pH	N/A								
Melting point/range	Not determined								
Boiling point/range	Not determined								
Flash point	None								
Flammability (solid, gas)	NA / Not determined								
Ignition Temperature	Not determined								
Decomposition temperature	Not determined								
Auto igniting	Product is not self-igniting			Not determined	Product is not self-igniting				
Danger of explosion	Product does not present an explosion hazard								
Lower Explosion limits	Not determined								
Upper Explosion limits	Not determined								
Vapor pressure	Not determined / NA								
Relative density	Not determined								
Vapor density	Not determined / NA								
Evaporation rate	Not determined / NA								
Solubility in water	Insoluble	Fully miscible							
Partition coefficient	Not determined								
Dynamic Viscosity	Not determined								
Kinematic Viscosity	Not determined								
Organic solvents	0.0%								
Other	No further relevant information available								



Information

SECTION 9. STABILITY AND REACTIVITY

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Strong oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 10. TOXICOLOGICAL INFORMATION

- **Information on toxicological effects:**
- **Acute toxicity:**

7647-14-5 Sodium Chloride		
Oral	LD50	4000 mg/kg (mouse) 3000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
7558-79-4 Sodium Phosphate		
Oral	LD50	17000 mg/kg (rat)
7664-93-9 Sulfuric Acid		
Oral	LD50 Oral	2140 ml/kg (rat)
Inhalative	LC50/96 hours	375 mg/l (rat) Sulfuric acid is harmful by all routes of entry

- **Primary irritant effect:**
 - **On the skin:** May be irritating (stop solution). Others no irritating effect.
 - **On the eye:** May be irritating (stop solution). Others no irritating effect.
- **Additional toxicological information:**
 The product is not subject to classification according to internally approved calculation methods for preparation (excluding 10X Wash Buffer and Stop Solution).
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories:**

· IARC (International Agency for Research on Cancer):		
Group 1 – Carcinogenic to humans		
Group 2A – Probably carcinogenic to humans		
Group 2B – Possibly carcinogenic to humans		
Group 3 – Not classifiable as to its carcinogenicity to humans		
Group 4 – Probably not carcinogenic to humans		
7647-01-0	Hydrochloric acid	3

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

SECTION 11. ECOLOGICAL INFORMATION

· Aquatic toxicity:		
7664-93-9 Sulfuric Acid		
EC50	22 mg/l (daphnia)	
7647-14-5 Sodium Chloride		
EC50	340.7-469.2 mg/l (Water flea)	

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential:** No further relevant information available.
 - **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
 - **Results of PBT and vPvB assessment:**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

SECTION 12. DISPOSAL CONSIDERATIONS

- **Waste treatment methods:**
- **Recommendation:**
Smaller quantities can be disposed of with household waste.
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION 13. TRANSPORT INFORMATION

· UN-Number:	
· DOT, ADR, ADN, IMDG, IATA	Non-Regulated Material
· UN proper shipping name:	
· DOT, ADR, ADN, IMDG, IATA	Non-Regulated Material
· Transport hazard class(es):	
· DOT, ADR, ADN, IMDG, IATA	
· Class:	Non-Regulated Material
· Packing group:	
· DOT, ADR, IMDG, IATA	Non-Regulated Material
· Environmental hazards:	Not applicable.
· Special precautions for user:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· UN "Model Regulation":	Non-Regulated Material

SECTION 14. REGULATORY INFORMATION

- **SARA (Superfund Amendments and Reauthorization):**

· Section 355 (extremely hazardous substances):	
7647-01-0	Hydrochloric acid
7664-93-9	Sulfuric Acid
· Section 313 (Specific toxic chemical listings):	
7647-01-0	Hydrochloric acid
7664-93-9	Sulfuric Acid
· TSCA (Toxic Substances Control Act):	
54-64-8	Thiomersal
1310-73-2	Sodium Hydroxide
7732-18-5	Highly Purified Water
7647-14-5	Sodium Chloride

1185-53-1	Tris-HCl
9005-64-5	Tween 20

· **California Proposition 65:**

· Chemicals known to cause cancer:
None of the ingredients are listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.
· Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients are listed.
· New Jersey Right-to-Know List:
1310-73-2 Sodium Hydroxide
7647-01-0 Hydrochloric acid
· New Jersey Special Hazardous Substance List:
1310-73-2 Sodium Hydroxide
7647-01-0 Hydrochloric acid
· Pennsylvania Right-to-Know List:
1310-73-2 Sodium Hydroxide
7647-01-0 Hydrochloric acid
· Pennsylvania Special Hazardous Substance List:
1310-73-2 Sodium Hydroxide
7647-01-0 Hydrochloric acid

· **Carcinogenic categories:**

· EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· TLV (Threshold Limit Value established by ACGIH):	
7647-01-0 Hydrochloric acid	A4
7664-93-9 Sulfuric acid	A2
· NIOSH-Ca (National Institute for Occupational Safety and Health):	
None of the ingredients are listed.	

- **GHS label elements** Non-Regulated Material
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances. Non-Regulated Material (only for Negative Control)

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 15. OTHERS

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of

this information and the suitability of the material or product for any particular purpose.



· **Last revision: 4**

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety & Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit

***Data compared to the previous version altered.**

<p>ISO 13485 ISO 9001</p> 	
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