



Material Safety Data Sheet

Japanese Encephalitis IgM

ELISA

IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: Japanese Encephalitis IgM Antibody Capture ELISA
Catalog No: 8403-25
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:**
Classification according to Regulation (EC) No 1272/2008
The product is not classified according to the CLP regulation.
- **Label elements:**
- **Labelling according to Regulation (EC) No 1272/2008** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material
- **Additional information:**
0 % of the mixture consists of component(s) of unknown toxicity. Contains 0 % of components with unknown hazards to the aquatic environment: Coated Microtiter Strips, Sample Dilution Buffer, Negative Control, Ready to Use JE Antigen (JERA), Ready to Use Enzyme Conjugate-HRP, EnWash, Liquid TMB Substrate, Stop Solution.
1 % of the mixture consists of component(s) of unknown toxicity. Contains 1 % of components with unknown hazards to the aquatic environment: Positive Control, Ready-to-Use Normal Cell Antigen (NCA).
Contains 2.4 % of components with unknown hazards to the aquatic environment. Safety data sheet available on request: 10X Wash Buffer
- **Other hazards:** None known
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 2. Composition/Information on Ingredients

Coated Microtiter Strips:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

Sample Dilution Buffer:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

Positive Control:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.



Negative Control:

- **Chemical characterization: Substance**
- **CAS No. Description**
Human Serum (normal)

Ready to Use JE Antigen (JERA):

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

Ready to Use Normal Cell Antigen (NCA):

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

Ready to Use Enzyme Conjugate-HRP:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

EnWash:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

10x Wash Buffer:

- **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous Components:		
CAS: 7647-14-5 EINECS: 231-598-3 RTECS: VZ4725000	Sodium Chloride ⚠ STOT SE 3, H335	5-10%
CAS: 7558-79-4 EINECS: 231-448-7 RTECS: WC 4500000	Sodium Phosphate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335-H336	≤2.5%

- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

Liquid TMB Substrate:

- **Description:** Mixture: consisting of non-regulated material.
- **Dangerous Components:** Non-Regulated Material
- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

Stop Solution:

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

· Dangerous Components:		
CAS: 7664-93-9 EINECS: 231-639-5	Sulfuric Acid	⚠ Skin Corr. 1A, H314 2-12%

- **Additional information:** For the wording of the listed hazard phrases refer to section 15.

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.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:** a; 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	
WEL	Long-term value: 0.05* mg/m ³ *mist: defined 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 JE Antigen	Ready to Use Normal Cell Antigen	Ready to Use Conjugate-HRP	EnWash	10X Wash Buffer	Liquid TMB substrate	Stop Solution
Form	Strip	Liquid									
Color	Colorless	Clear			yellow	Pink to yellow	Clear				
Odor	Odorless			slight	Odorless						
pH	N/A										
Melting point/range	Not determined										
Boiling point/range	Not determined										
Flash point	NA / Not determined										
Flammability (solid, gas)	NA / Not determined										
Ignition Temperature	Not determined										
Decomposition temperature	Not determined										
Self-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				Soluble	Fully miscible				
Partition coefficient	Not determined										
Dynamic Viscosity	N/A	Not determined									



Kinematic Viscosity	N/A	Not determined
Organic solvents		0.0%
Other Information		No further relevant information available

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)

- **Primary irritant effect:**
- **Skin corrosion/irritation:** For Stop Solution, it may be irritated. For the others, based on available data, the classification criteria are not met
- **Serious eye damage/irritation:** For Stop Solution, it may be irritated. For the others, based on available data, the classification criteria are not met
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients are listed.

· **National regulations:**

For Negative Control, Substance is not listed.

For the others, the product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

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

SECTION 15. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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



ISO 13485
ISO 9001



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