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**ELISA**Genie



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**MATERIAL SAFETY DATA SHEET  
(MSDS)**

**ELISA KIT ASSAY**

**Research Use Only**

## **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**MSDS Name:** ELISA Kit Assay (Product code containing #FI symbols)

Company Identification: [www.ELISAGenie.com](http://www.ELISAGenie.com)

For information, call: +353 83 87 38139

For emergencies, call: +353 83 87 38139

### **2. HAZARDS IDENTIFICATION**

Hazards Identifications:

According to GHS

**Stop Solution contains Sulfuric Acid: Skin Irrit. Class 2; Eye Irrit. Class 2**

**Signal Word: WARNING**

Hazard statements: Causes skin irritation. Causes serious eye irritation.

Precautionary statements: Wash hands thoroughly after handling. Wear protective gloves, clothing and eye and face protection.

**Response:**

IF ON SKIN (or hair): Immediately remove contaminated clothing and wash before re-use. Wash skin immediately with soap and water. Get medical attention if irritation persists after washing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists, get medical attention.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

**Classification according to Directive 67/548/EEC:** Irritating to eyes and skin.

**Hazard Symbol / R-Phrase / S-Phrase:** Xi, Irritant / R36/38, Irritating to eyes and skin. / S26, In case of contact with eyes, rinse immediately with plenty of water and see medical advice.

Other hazards: NONE

Environmental hazards: Not known

Emergency Overview:

To the best of our knowledge, information and data, we have not yet know the healthy and environmental hazards.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Product Name:** Enzyme Linked Immunosorbent Assay Reagent ELISA Reagent

<b>Ingredient</b>	<b>Concentration</b>	<b>CAS No.</b>	<b>EC No.</b>
water	93.04%	7732-18-5	231-791-2
bovine serum albumin	1%	9048-46-8	2332-936-2
sodium chloride	0.80%	7647-14-5	231-598-3
disodium hydrogenorthophosphate	0.12%	7558-79-4	231-448-7
potassium chloride	0.02%	7447-40-7	231-211-8
potassium dihydrogen orthophosphate	0.02%	7778-77-0	231-913-4
Sulfuric Acid	5%	7664-93-9	231-639-5

#### **4. FIRST AID MEASURES**

General advice: If symptoms persist, call a physician.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If symptoms persist, call a physician.

Inhalation: Move to fresh air.

Ingestion: Clean mouth with water. Drink plenty of water.

#### **5. FIRE-FIGHTING MEASURES**

Personal precautions: Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions: Try to prevent the material from entering drains or water courses.

Methods for containment: Prevent further leakage or spillage if safe to do so

Methods for cleaning up: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

#### **6. ACCIDENTAL RELEASE MEASURES**

#### Procedure of Personal Precaution:

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

#### Methods for Cleaning up:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

#### Environmental Precautions:

Do not let product entry drains.

### **7. HANDLING AND STORAGE**

Advice on safe handling: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Technical measures/Storage conditions: Keep out of the reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering measures: Showers /Eyewash stations /Ventilation systems

#### Personal protective equipment

Eye/face protection: Tightly fitting safety goggles. Face-shield.

Skin and body protection: No special protective equipment required.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Colorless transparent liquid

Odor: Weak odor

Initial Boiling: 100°C

Flash point: >96°C

(closed cup)/ °C:

pH vALUE: 7.5(25°C,50.0g/L)

Solubility: Miscible in water

Density/Relative:  $1.008 \times 10^3 \text{ kg/m}^3$ (20.0°C  $\pm$ 0.1°C

Density Viscosity: 1.074mm<sup>2</sup>/s (20.00°C $\pm$ 0.02°C, kinematic viscosity)

## **10. STABILITY AND REACTIVITY**

Stability: Stable under recommended storage conditions.

Incompatible products: None known based on information supplied.

Conditions to avoid: None known based on information supplied.

Hazardous decomposition products: None known based on information supplied.

Hazardous polymerization: Hazardous polymerization does not occur.

## **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity

Sodium chloride: Rat oral LD<sub>50</sub>:3000mg/kg

Rat inhalation LC<sub>50</sub>: >42000mg/m<sup>3</sup>/1H

Rabbit skin LD<sub>50</sub>: >10000mg/kg

Sodium dihydrogen orthophosphate: Rat Oral LD<sub>50</sub>: 17000mg/kg

Potassium chloride: Rat Oral LD<sub>50</sub>: 2600mg/kg

Potassium dihydrogen orthophosphate: Rabbit skin LD<sub>50</sub>: >4640mg/kg

Skin corrosion: No data available

Serious eye damage: No data available

## **12. ECOLOGICAL INFORMATION**

Toxicity: The environmental impact of this product has not been fully investigated.

## **13. DISPOSAL CONSIDERATIONS**

Waste disposal methods: Contact a licensed professional waste disposal service to dispose of this material. This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult the appropriate state, regional, or local regulations for additional requirements.

#### 14. TRANSPORT INFORMATION

DOT: Not dangerous goods

IATA: Not dangerous goods

ADR: Not dangerous goods

#### 15. REGULATORY INFORMATION

Regulation (EC) No. 1272/2008:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### Reported by:

Company Name: ELISA Genie (part of  
Reagentbio Ireland LTD)

Date: 01/03/2017

Authorised Person: Colm Ryan PhD, CEO



#### Contact Details



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