MATERIAL SAFETY DATA SHEET

Enzyme Linked Immunosorbent Assay Reagent for Research Use Only; ELISA Reagent

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product name:	Enzyme Linked Immunosorbent Assay Reagent for Research Use Only; ELISA Reagent
Company:	Reagent Genie Ireland Limited
Address:	Unit G1 The Steelworks Dublin Ireland D01 KA00
Email:	info@reagentgenie.com
Emergency Phone:	00-353-1-887-9802
SDS Number:	ES0001
SDS Date:	16/12/2018

SECTION 2 HAZARDS IDENTIFICATION

Hazards Identification:

According to GHS

Physical hazards: Not classified

Health hazards: Not classified

Environmental hazards: Not classified

Emergency Overview:

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

SECTIONE INFORMATION ON INGREDIENTS

Product name: Enzyme Linked Immunosorbent Assay Reagent for Research Use Only; ELISA Reagent

Ingredient	Concentration	CAS No.	EC No.
Water	98.045%	7732-18-5	231-791-2
Bovine serum albumin	1%	9048-46-8	232-936-2
Sodium chloride	0.8%	7647-14-5	232-598-3
Disodium hydrogen orthophosphate	0.115%	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

SECTION4 FIRST-AID MEASURES

Skin Exposure

In case of contact, immediately wash skin with soap and copious amounts of water. Irritation persists, call

a physician.

Eye Exposure:

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air. If necessary, get medical attention.

Oral Exposure:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Water spray, Dry chemical, Carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION6 ADDIDENTAL 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 enter drains.

SECTION7 HANDLING AND STORAGE

Handling:

Wear appropriate protective clothing and safety gloves. Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: Strong oxidizing agents. No smoking at working site.

Storage:

Store in a cool, dry and well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: Strong oxidizing agents. Recommended storage temperature: 2-8℃

SECTION8 EXPOSURE CONTROL/PPE

Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment:

Respiratory: Government approved respirator if needed.

Eye: Chemical safety goggles if needed.

Clothing: Wear appropriate protective clothing.

Hand: Protective gloves.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Colorless transparent liquid
Odor:	Weak odor
Flash Point(Closed Cup)/ ℃:	>95.0℃
Boiling Point/℃:	98℃
pH Value:	7.4(25℃,50.0g/L)
Solubility:	Miscible in water
Density/Relative Density:	$1.008\times10^{3}kg/m^{3}$(20.0℃±0.1℃)
Viscosity:	$1.225mm^{3}/s$(20.00℃±0.02℃,kinematic viscosity)

SECTION10 STABILITY AND REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Materials to Avoid:

Strong oxidizing agents.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Carbon oxides, Sodium oxides, Phosphorous oxides, Potassium oxides, Hydrogen chloride gas.

SECTION11 TOXICOLOGICAL INFORMATION

Acute toxicity:

Sodium chloride: Rat Oral LD50: 3000mg/kg

Rat Inhalation LC50: $>42000mg/m^{3}/1H$

Rabbit Dermal LD50: >10000mg/kg

Sodium dihydrogenorthophosphate: Rat Oral LD50: 17000mg/kg

Potassium chloride: Rat Oral LD50: 2600mg/kg

Potassium dihydrogen orthophosphate: Rabbit Dermal LD50: >4640mg/kg

Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

No data available.

SECTION12 ECOLOGICAL INFORMAITON

Toxicity:

Sodium chloride:

Toxicity to daphnia and other aquatic invertebrates NOEC-Daphnia-1500mg/L-7d

LD50-Daphnia magna (Water flea)-1661mg/L-48h

Potassium chloride:

Toxicity to fish LC50-Pimephales promelas (fathead minnow)-880mg/L-96h

Morality NOEC- Pimephales promelas (fathead minnow)-500mg/L-7d

Morality LOEC- Pimephales promelas (fathead minnow)-1000mg/L-7d

Toxicity to daphnia and other aquatic invertebrates EC50-Daphnia magna(Water flea)-83mg/L-48h

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Appropriate Method o Disposal of Substance:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION14 TRANSPORT INORMATION

RID/ADR:	Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport
IATA:	Non-Hazardous for Air Transport.
IMO:	Non-Hazardous for Sea Transport.

SECTION15 REGULATIRY INFORMATION

Regulation (EC) No.1272/2008:

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