



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 16-Jul-2024

Revision Number 1

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	LBIS™ ELISA Training Kit
Product Code	290-86401

**Supplier** FUJIFILM Wako Pure Chemical Corporation

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**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

## **Section 2: HAZARDS IDENTIFICATION**

#### **GHS** classification

Classification of the substance or mixture

Corrosive to metalsCategory 1Acute toxicity - Inhalation (Dusts/Mists)Category 3Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Specific target organ toxicity (single exposure)Category 1

Category 1 respiratory system

Specific target organ toxicity (repeated exposure) Category 1

Category 1 respiratory system

Chronic aquatic toxicity Category 2

#### **Pictograms**



#### **Hazard statements**

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H411 - Toxic to aquatic life with long lasting effects

H370 - Causes damage to the following organs: respiratory system

H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system

### **Precautionary statements-(Prevention)**

- · Use only outdoors or in a well-ventilated area
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- · Do not eat, drink or smoke when using this product

- · Avoid release to the environment
- · Keep only in original container

#### Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- · Collect spillage
- · Absorb spillage to prevent material damage

#### Precautionary statements-(Storage)

- Store in a well-ventilated place. Keep container tightly closed
- Store locked up
- Store in corrosive resistant/ container with a resistant inner liner

### Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Kit (Set of mixtures)

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Antibody-coated Plate	-	N/A	N/A	N/A	N/A-29-8641
Albumin Standard	-	N/A	N/A	N/A	N/A-29-8642
Buffer	-	N/A	N/A	N/A	N/A-29-8643
Peroxidase-conjugated	-	N/A	N/A	N/A	N/A-29-8644
Antibody Solution					
TMB Solution	-	N/A	N/A	N/A	N/A-29-8645
Stop Solution	-	N/A	N/A	N/A	N/A-29-8646
Wash Solution(10x)	-	N/A	N/A	N/A	N/A-29-8647
Plate Frame	-	N/A	N/A	N/A	N/A-29-8648
Sample	-	N/A	N/A	N/A	N/A-29-8649
Plate Seal	-	N/A	N/A	N/A	N/A-29-8651

Note on ISHL No.:

\* in the table means announced chemical substances.

Substances Remarks: This Product includes the following componets. Sulfuric Acid <10 %, Sodium Chloride

<10 %, Polyoxyethylene(20) Sorbitan Monolaurate <0.60 %, EDTA, disodium salt,

dihydrate < 0.20 %

## **Section 4: FIRST AID MEASURES**

### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

### **Protection of first-aiders**

Use personal protective equipment as required.

### Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

### Unsuitable extinguishing media

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Special extinguishing method

No information available

## Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

#### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

### Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

## **Section 7: HANDLING AND STORAGE**

### Handling

#### **Technical measures**

Avoid contact with alkaline substances. Avoid contact with metal. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

### Safety handling precautions

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

#### Storage

# Safe storage conditions

**Storage conditions** Store away from sunlight in a cool (2-10 °C) well-ventilated dry place.

Safe packaging material No information available Incompatible substances alkaline substances, Metals

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

### **Exposure limits**

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Sulfuric Acid	Ceiling: 1 mg/m <sup>3</sup>	N/A	TWA 0.2mg/m <sup>3</sup>
7664-93-9			_

Personal protective equipment

**Respiratory protection Gas mask for acidic gas (JIS T 8152) Hand protection chemical protective gloves (JIS T 8116)** 

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

**General hygiene considerations** 

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to

them.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

Appearance
Odor
No data available
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Plammability (solid, gas):
Upper/lower flammability or explosive limits

Kit (Set of mixtures)
no data available
no data available
no data available
no data available

no data available Upper: no data available Lower: Flash point no data available **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available **Solubilities** No data available no data available n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure Specific Gravity / Relative density no data available Vapour density no data available no data available **Particle characteristics** 

## Section 10: STABILITY AND REACTIVITY

#### **Stability**

**Reactivity** no data available

Chemical stability Stable under recommended storage conditions.

**Hazardous reactions** 

Corrodes metals to generate hydrogen gas.

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

alkaline substances, Metals

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Sulfur oxides (SOx), Nitrogen oxides (NOx)

## Section 11: TOXICOLOGICAL INFORMATION

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid	2140 mg/kg (Rat)	N/A	0.375 mg/L ( Rat ) 4 h
Sodium Chloride	3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h
Poly(oxyethylene)sorbitan	37000 mg/kg (Rat)	N/A	> 5.1 mg/L (Rat) 4 h
monolaurate	36700 μL/kg (Rat)		- ' '

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Canano / tota			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Sulfuric Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

### Skin irritation/corrosion

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Chemical Name	Skin corrosion/irritation source information
Sulfuric Acid	Based on the NITE GHS classification results.

## Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Sulfuric Acid	Based on the NITE GHS classification results.

## Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Sulfuric Acid	Based on the NITE GHS classification results.

#### Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Sulfuric Acid	Based on the NITE GHS classification results.

## Carcinogenicity

Chemical Name	Carcinogenicity source information
Sulfuric Acid	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
Sulfuric Acid	-	Group 1	A2	-
7664-93-9				

## Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Sulfuric Acid	Based on the NITE GHS classification results.	

## STOT-single exposure

Chemical Name	STOT -single exposure- source information	
Sulfuric Acid	Based on the NITE GHS classification results.	

## STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Sulfuric Acid	Based on the NITE GHS classification results.	
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## Aspiration hazard

Chemical Name	Aspiration Hazard source information	
Sulfuric Acid	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sulfuric Acid	N/A	LC50:Lepomis macrochirus	LC50:Daphnia magna

		16 - 28 mg/L 96 h	29 mg/L 24 h
Sodium Chloride	N/A	LC50 : Lepomis macrochirus	EC50 : Daphnia magna
		5560 - 6080 mg/L 96 h	1000 mg/L 48 h
		LC50 : Lepomis macrochirus	EC50 : Daphnia magna
		12946 mg/L 96 h	340.7 - 469.2 mg/L 48 h
		LC50 : Pimephales promelas	
		6020 - 7070 mg/L 96 h	
		LC50 : Pimephales promelas	
		7050 mg/L 96 h	
		LC50 : Pimephales promelas	
		6420 - 6700 mg/L 96 h	
		LC50 : Oncorhynchus mykiss	
		4747 - 7824 mg/L 96 h	

#### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Sulfuric Acid	Based on the NITE GHS classification	Based on the NITE GHS classification
	results	results

Persistence and degradability No information available **Bioaccumulative potential** No information available Mobility in soil No information available Hazard to the ozone layer No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **Section 14: TRANSPORT INFORMATION**

ADR/RID

**UN** number UN2796 Proper shipping name: Sulphuric acid

**UN classfication** 8

Subsidiary hazard class

Packing group Marine pollutant Yes

**IMDG** 

UN2796 **UN** number Proper shipping name: Sulphuric acid

**UN classfication** 

Subsidiary hazard class

Packing group Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN2796 **UN** number Proper shipping name: Sulphuric acid

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

#### **Substance**

### Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Group 3 Specified Chemical Substance, (Ordinance on Prevention of Hazards Due to

Specified Chemical Substances Art.2 Para.1, Item 6)

Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) Priority Assessment Chemical Substances (Law Article 2, Para.5)

Act on the Evaluation of Chemical Substances and Regulation of Their

Manufacture, etc Regulations for the carriage

and storage of dangerous

goods in ship

Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of

Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Air Pollution Control Law Specified Substances

**Industrial Safety and Health Law** 

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Sulfuric acid	<10	Existing Law

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) ://www.chem-info.nite.go.jp/chem/chrip/chrip\_search/systemTop

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

### Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**