



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision Date 1-Jul-2023 Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	LBIS Rat Albumin ELISA Kit
Product code	631-04311

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605,

Japan

Phone: +81-6-6203-3741 Facsimile: +81-6-6203-2029

Supplier FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605,

Japan

Phone: +81-6-6203-3741 Facsimile: +81-6-6203-2029

Emergency telephone number +81-6-6203-3741 / +81-3-3270-8571

Recommended uses and restrictions on use For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - Inhalation (Vapors)Category 4Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Skin sensitizationCategory 1Specific target organ toxicity (single exposure)Category 1

Category 1 respiratory system

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 respiratory system

Pictograms







Signal word

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H317 - May cause an allergic skin reaction

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
- Contaminated work clothing should not be allowed out of the workplace
- Do not eat, drink or smoke when using this product

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 skin irritation or rash occurs: Get medical advice/ attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/ physician if you feel unwell.
- IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary statements-(Storage)

· Store locked up.

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
Anti-albumin coated plate	-	N/A	N/A	N/A	N/A
Standard rat albumin	-	N/A	N/A	N/A	N/A
Buffer solution	-	N/A	N/A	N/A	N/A
HRP-labeled anti-albumin antibody	-	N/A	N/A	N/A	N/A
Chromogen (TMB): 3,3' ,5,5' - Tetramethyl-benzidine	-	N/A	N/A	N/A	N/A
Stop solution	-	N/A	N/A	N/A	N/A
Wash stock solution (10X)	-	N/A	N/A	N/A	N/A

Impurities and/or Additives : Not applicable

Substances Remarks: Sulfuric Acid 6.9 %, Poly (oxyethylene) sorbitan monolaurate <1 %,

2-Methyl-2H-isothiazol-3-one < 0.2 %

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

Water spray (fog), Carbon dioxide (CO₂), Foam, Extinguishing powder, Sand

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 contaminant and methods and materials for cleaning up

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

Recovery, 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 oxidizing and reducing agents. Avoid contact with alkaline substances. 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 °C -8 °C) well-ventilated dry place.

Safe packaging material No information available

Incompatible substances Strong oxidizing agents, Reducing agent, Alkali

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 hand- and eye-wash facility. And display their position clearly.

Exposure limits

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Sulfuric Acid	1 mg/m³	N/A	TWA 0.2 mg/m ³
7664-93-9	_		_

Personal protective equipment

Respiratory protection Gas mask for acidic gas Hand protection Impermeable protective gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

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

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 n-Octanol/water partition coefficient: (log Pow) No data available Vapor pressure No data available Specific Gravity / Relative density No data available Vapor density No data available Particle characteristics No data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents, Reducing agent, Alkali

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx), Sulfur oxides (SOx), Phosphorus oxide

Section 11: TOXICOLOGICAL INFORMATION

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid	2140 mg/kg (Rat)	N/A	347 ppm (Rat) 4 h
Poly (oxyethylene)	37000 mg/kg (Rat)	N/A	N/A
sorbitan monolaurate	36700 μL/kg (Rat)		
2-Methyl-2H-isothiazol-3-	120 mg/kg (Rat)	200 mg/kg (Rabbit)	0.11 mg/L (Rat) 4 h
one			

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -inhalation gas- source information
	_	Based on the NITE GHS classification results.

Chemical Name	•	•	Acute toxicity -inhalation mist- source information
	_	_	Based on the NITE GHS classification results.

Skin irritation/corrosion

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

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 mutagenicity 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 (Japan)
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					
6 1 1 1 1 1 1					

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

STOT-repeated exposure

	STOT -repeated exposure- source information	
Sulfuric Acid Based	on the NITE GHS classification results.	

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: <i>Daphnia magna</i> 29 mg/L 24 h
2-Methyl-2H-isothiazol-3- one	N/A	-	EC50: <i>Daphnia magna</i> 0.18 mg/L, 48h

Other data

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

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
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 UN3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid)

UN classification 8

Subsidiary hazard class

Packing group ||

Marine pollutant Not applicable

IMDG

UN number UN3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid)

UN classification

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the

IBC Code

IATA

UN number UN3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid)

UN classification

Subsidiary hazard class

Packing group

Environmentally Hazardous

Substance

Not applicable

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS TSCA

Japanese regulations

Fire Service Act Poisonous and Deleterious Substances Control Law

Not applicable Not applicable

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the

Label (Law Art.57, Para.1, Enforcement Order Art.18)

Group 3 Specified Chemical Substance, (Ordinance on Prevention of Hazards Due to Specified Chemical Substances Art.2 Para.1,

Item 6)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Attached Table No.9) No.613

Act on the Evaluation of Chemical Priority Assessment Chemical Substances (Law Article 2, Para.5)

Substances and Regulation of

Their Manufacture, etc

Regulations for the carriage and storage of dangerous goods in

ship

Civil Aeronautics Law

Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached

Table 1)

Corrosive Substances (Ordinance Art.194, MITL Notification for Air

Transportation of Explosives etc., Attached Table 1)

Enforcement ordinance Appendix No.1 Noxious liquid substance **Marine Pollution Prevention Law**

category Y

Pollutant Release and Transfer

Register Law

Not applicable

Water Pollution Control Act

Specified substances (Law Art.2 Para.4, Enforcement Order Art.3-

Air Pollution Control Law

Specified Substances

Industrial Safety and Health Law

made and a control and meaning and			
Law Name	Chemical Name in Regulation	Ordinance Number	Weight %
Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2 Attached Table No.9, and Law Art.56-1)	Sulfuric acid	613	6.9

Section 16: OTHER INFORMATION

Key literature references and sources

for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS: Registry of Toxic Effects of Chemical Substances

Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Organic 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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet