



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™ Der f 2 ELISA Kit
Product Code	290-86901

Supplier FUJIFILM Wako Pure Chemical Corporation

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

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

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

Recommended uses For research use only

Restrictions on useSeek 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-29-8691
Der f 2 Standard	-	N/A	N/A	N/A	N/A-29-8692
Buffer	-	N/A	N/A	N/A	N/A-29-8693
Peroxidase-conjugated	-	N/A	N/A	N/A	N/A-29-8694
Antibody Solution					
TMB Solution	-	N/A	N/A	N/A	N/A-29-8695
Buffer solution for	-	N/A	N/A	N/A	N/A-29-8696
extraction					
Stop Solution	-	N/A	N/A	N/A	N/A-29-8697
Wash Solution(10x)	-	N/A	N/A	N/A	N/A-29-8698
Plate Seal	-	N/A	N/A	N/A	N/A-29-8699

Note on ISHL No.: * in the table means announced chemical substances.

Substances Remarks: This Product includes the following componets. Sulfuric Acid <7.0 %, Sodium Chloride

<10 %, Polyoxyethylene(20) Sorbitan Monolaurate <0.60 %

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 ³	N/A	TWA 0.2mg/m ³
7664-93-9			-

Personal protective equipment

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

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

Long-sleeved work clothes Skin and body protection

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Appearance Kit (Set of mixtures) no data available Odor no data available Melting point/freezing point Boiling point, initial boiling point and boiling range no data available **Flammability** no data available no data available **Evaporation rate:** Flammability (solid, gas): no data available

Upper/lower flammability or explosive limits

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

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)

Section 11: TOXICOLOGICAL INFORMATION

Acı		

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

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	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.

Chemical Name	Acute toxicity -inhalation	cute toxicity -inhalation	
	vapor- source information	source information	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

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

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

our office genicity		
	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	-
7664-03-0	I		ĺ	

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.
A	

Aspiration hazard

Sulfuric Acid Based on the NITE GHS classification results.	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
Ī	Sodium Chloride	N/A	LC50 : Lepomis macrochirus	EC50 : Daphnia magna
			5560 - 6080 mg/L 96 h	1000 mg/L 48 h

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

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 UN2796 Proper shipping name: Sulphuric acid

UN classfication 8
Subsidiary hazard class
Packing group II
Marine pollutant Yes

IMDG

UN number UN2796
Proper shipping name: Sulphuric acid

UN classfication 8
Subsidiary hazard class
Packing group ||

Packing group II
Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN2796 Proper shipping name: Sulphuric acid

UN classfication Subsidiary hazard class

Packing group II Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
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

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

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

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc

Manufacture, etc
Regulations for the carriage

and storage of dangerous goods in ship

Civil Aeronautics Law

angerous Transport by Ship and Storage, Attached Table 1)

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

Specified Substances

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Sulfuric acid	<7.0	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