



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 04-Jul-2024 Revision Number 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	LBIS™ Mouse/Rat Insulin ELISA Kit (Luminescent)		
Product Code	296-89301		
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 Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.		

Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 1 central nervous system, blood system, kidneys

Category 2 Category 2A Category 1



Danger

Hazard statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H370 Causes damage to the following organs: central nervous system, blood system, kidneys

Precautionary statements-(Prevention)

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

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- 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 advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- · If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse

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
Antibody-coated Plate	-	N/A	N/A	N/A	N/A-29-8931
Mouse/Rat Insulin Standard	-	N/A	N/A	N/A	N/A-29-8932
Buffer	-	N/A	N/A	N/A	N/A-29-8933
Peroxidase-conjugated Antibody Solution	-	N/A	N/A	N/A	N/A-29-8934
Luminescent Reagent 1	-	N/A	N/A	N/A	N/A-29-8935
Luminescent Reagent 2	-	N/A	N/A	N/A	N/A-29-8936
Wash Solution(10x)	-	N/A	N/A	N/A	N/A-29-8937
Plate Seal	-	N/A	N/A	N/A	N/A-29-8938
Note on ISHL No.:	on ISHL No.: * in the table means announced chemical substances.				-

Substances Remarks:

This Product includes the following componets. Sodium Chloride <10 %, Ethylene Glycol

This Product includes the following componets. Sodium Chloride <10 %, Ethylene Glycc 1.0 - 3.0 %, Hydrochloric Acid 0.10 - 1.0 %, 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. 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 Safe packaging material Incompatible substances

Store away from sunlight in a cool (2-10 °C) well-ventilated dry place. No information available alkaline substances

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
Ethylene Glycol	N/A	N/A	STEL: 50 ppm vapor fraction
107-21-1			STEL: 10 mg/m ³ inhalable
			particulate matter,
			aerosol only
			TWA: 25 ppm vapor fraction
Hydrogen Chloride	Ceiling: 2 ppm	N/A	Ceiling: 2 ppm
7647-01-0	Ceiling: 3.0 mg/m ³		

Chemical Name	Concentration standard value set by the Minister of Health, Labor and Welfare (8hr)	Concentration standard value set by the Minister of Health, Labor and Welfare (Short-Term)
Ethylene Glycol 107-21-1	10 ppm	50 ppm

Personal protective equipment Respiratory protection Prot Hand protection chei Eye protection prot Skin and body protection

Protective mask chemical protective gloves (JIS T 8116) protective eyeglasses or chemical safety goggles (JIS T 8147) 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	Kit (Set of mixtures)
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	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	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
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
 Stable under recommended storage conditions.

 None under normal processing
 Conditions to avoid

 Extremes of temperature and direct sunlight
 Incompatible materials alkaline substances

 Hazardous decomposition products
 Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Halides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Chloride	3 g/kg (Rat)	> 10000 mg/kg (Rabbit)	> 42 mg/L (Rat)1 h

Ethylene Glycol	5890 - 13400 mg/kg (Rat)	9530 mg/kg(Rabbit)	2.7 mg/L(Rat)4 h
Hydrogen Chloride	238 - 277 mg/kg (Rat)	>5010 mg/kg(Rabbit)	1411 ppm (Rat) 4 h
Poly(oxyethylene)sorbitan	37000 mg/kg (Rat)	N/A	> 5.1 mg/L (Rat) 4 h
monolaurate	36700 µĽ/kg (Rat)		_ 、 ,

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	
	information	information	source information
Ethylene Glycol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Hydrogen Chloride	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
, ,	classification results.	classification results.	classification results.
Chomical Namo	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-

	Acute toxicity -initialation	Acute toxicity -initialation dust-Acute toxicity -initialati	
	vapor- source information	source information	source information
Ethylene Glycol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
, ,	classification results.	classification results.	classification results.
Hydrogen Chloride	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
Ethylene Glycol	Based on the NITE GHS classification results.
Hydrogen Chloride	Based on the NITE GHS classification results.
Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
Ethylene Glycol	Based on the NITE GHS classification results.
Hydrogen Chloride	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Ethylene Glycol	Based on the NITE GHS classification results.
Hydrogen Chloride	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Ethylene Glycol	Based on the NITE GHS classification results.
Hydrogen Chloride	Based on the NITE GHS classification results.
Carcinogenicity	· · · ·
Chemical Name	Carcinogenicity source information
Ethylene Glycol	Based on the NITE GHS classification results.
Hydrogen Chloride	Based on the NITE GHS classification results.

NTP	IARC	ACGIH	JSOH
N/A	Group 3	N/A	N/A
	Reproducti	ve toxicity source ir	formation
E	Based on the NITE G⊢	IS classification resul	ts.
E	Based on the NITE GH	IS classification resul	ts.
·			
	STOT -single	e exposure- source i	information
E	Based on the NITE GHS classification results.		
E	Based on the NITE GHS classification results.		
	STOT -repeate	ed exposure- source	e information
E	Based on the NITE GHS classification results.		
E	Based on the NITE GHS classification results.		ts.
	Aspiratio	n Hazard source info	ormation
E	Based on the NITE GHS classification results.		
E	Based on the NITE GHS classification results.		
		N/A Group 3 N/A Group 3 Reproducti Based on the NITE GH Based on the NITE GH	N/A Group 3 N/A Reproductive toxicity source in Based on the NITE GHS classification resul Based on the NITE GHS classification resul Based on the NITE GHS classification resul Based on the NITE GHS classification resul Based on the NITE GHS classification resul

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Chloride	N/A	LC50 : Lepomis macrochirus 5560 - 6080 mg/L 96 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 6420 - 6700 mg/L 96 h LC50 : Oncorhynchus mykiss 4747 - 7824 mg/L 96 h	EC50 : Daphnia magna 1000 mg/L 48 h EC50 : Daphnia magna 340.7 - 469.2 mg/L 48 h
Ethylene Glycol	ErC50 : Pseudokirchneriella subcapitata > 1000 mg/L 72 h	LC50 : Oryzias latipes > 100 mg/L 96 h	EC50 : Daphnia magna > 1120 mg/L 48 h
Hydrogen Chloride	N/Ă	N/A	EC50 : Daphinia magna 0.492 mg/L 48 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
Ethylene Glycol	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.
Hydrogen Chloride	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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	Not regulated - Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class	Not regulated -

Existing Law

Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable No information available
the IBC Code	
ΙΑΤΑ	Not regulated
UN number	-
Proper shipping name:	
UN classfication	
Subsidiary hazard class	
Packing group	
Environmentally Hazardous	Not applicable
Substance	

Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act	Not applicable		
Poisonous and Deleterious	Not applicable		
Substances Control Law			
Industrial Safety and Health Ac	Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)		
	Notifiable Substances (Law A	Art.57-2)	
	Chemical Substances Hazar	dous to Skin, etc. (Regulations	Article 594-2 Paragraph 1)
Act on the Evaluation of	Priority Assessment Chemica	al Substances (Law Article 2, F	Para.5)
Chemical Substances and			
Regulation of Their			
Manufacture, etc			
Regulations for the carriage	Not applicable		
and storage of dangerous			
goods in ship			
Civil Aeronautics Law	Not applicable		
Pollutant Release and Transfer	Not applicable		
Register Law			
(2023.4.1-)			
Water Pollution Control Act		rt.2 Para.4, Enforcement Orde	r Art.3-3)
Air Pollution Control Law	Specified Substances, Hazar	rdous Air Pollutants	
Industrial Safety and Health Law			
Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Ethylene glycol	1.0 - 3.0	Existing Law

Section 16: OTHER INFORMATION

0.10 - 1.0

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	Key literature references and sources for data etc.	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.
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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

Hydrogen chloride

Notifiable Substances (Law Art.57-2)

End of Safety Data Sheet