



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 01-Mar-2024 Revision Number 1.01

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	CD81-Capture Human Exosome ELISA Kit (Streptavidin HRP)		
Product Code	292-83801		
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 <u>Classification of the substance or mixture</u> Acute toxicity - Inhalation (Vapors) Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 1 respiratory system Specific target organ toxicity (repeated exposure) Category 1 respiratory system

Category 4 Category 1 Category 1 Category 1

Category 1

Pictograms



#### Hazard statements

- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H332 Harmful if inhaled
- 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

#### **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
- · 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-CD81 Antibody-immobilized 96	-	N/A	N/A	N/A	N/A-29-8381
Well Plate		N1/A	N1/A	N1/A	NI/A 00 0000
Plate Seal	-	N/A	N/A	N/A	N/A-29-8382
Sample Reaction Buffer	-	N/A	N/A	N/A	N/A-29-8383
Antibody Reaction Buffer	-	N/A	N/A	N/A	N/A-29-8384
Washing Buffer (10x)	-	N/A	N/A	N/A	N/A-29-8385
Control Biotinylated Antibody Anti-CD81(100x)	-	N/A	N/A	N/A	N/A-29-8386
HRP-conjugated Streptavidin(100×)	-	N/A	N/A	N/A	N/A-29-8387
TMB Solution	-	N/A	N/A	N/A	N/A-29-8388
Stop Solution	-	N/A	N/A	N/A	N/A-29-8389

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

Hazardous Component

Sulfuric Acid <10%

# 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 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 strong oxidizing agents. 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 Strong oxidizing agents

## 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** Hand protection Eye protection Skin and body protection

Gas mask for acidic gas (JIS T 8152) 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 None under normal processing Conditions to avoid Extremes of temperature and direct sunlight Incompatible materials Strong oxidizing agents Hazardous decomposition products No information available

# Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity **Chemical Name** 

Oral LD50

**Dermal LD50** 

Inhalation LC50

Sulfuric Acid         2140 mg/kg (Rat)         N/A         0.375 mg/L (Rat) 4 h           Chemical Name         Acute toxicity -oral-source information         Acute toxicity -domat-source information         Acute toxicity -domat-source information         Acute toxicity -inhalation gas- source information           Sulfuric Acid         Based on the NITE GHS classification results.         Based on the NITE GHS classification results.         Based on the NITE GHS classification results.           Chemical Name         Acute toxicity -inhalation vapor source information         Based on the NITE GHS classification results.         Based on the NITE GHS classification results.         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 eye damage/irritation         Skin corrosion/irritation source information Sulfuric Acid         Based on the NITE GHS classification results.           Respiratory or skin sensitization         Based on the NITE GHS classification results.         Based on the NITE GHS classification results.           Reproductive cell mutagenicity         Chemical Name         Serious eye damage/irritation source information Sulfuric Acid         Based on the NITE GHS classification results.           Reproductive cell mutagenicity         Chemical Name         Ger classification results.           Chemical Name			r			
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Sulfuric Acid Based on the NITE GHS classification results.		cal Name		Aspiration Hazard source information		
	Sulfu	ric Acid				

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
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
		Based on the NITE GHS classification results

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available 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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN3264 Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid) 8 II Not applicable
IMDG	
UN number	UN3264
Proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid)
UN classfication	8
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Not applicable
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
UN number	UN3264
Proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid)
UN classfication	8
Subsidiary hazard class	-
Packing group	II
Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

Japanese regulations Fire Service Act Poisonous and Deleterious Substances Control Law	Not applicable Not applicable
Industrial Safety and Health Ac	t 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)
Industrial Safety and Health Act ( 2024~)	[2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
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 Register Law (2023.4.1-)	Not applicable			
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) 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 Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions	The following contents were revised. Regulatory information.

#### 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