



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 01-Mar-2024 Revision Number 1.02

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Human Chromogranin A ELISA Kit Wako		
Product Code	292-85501		
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 Acute toxicity - Inhalation (Dusts/Mists) Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitization Germ cell mutagenicity Carcinogenicity Specific target organ toxicity (single exposure) Category 1 respiratory system Category 2 blood system Category 3 Respiratory irritation, Narcotic effects Specific target organ toxicity (repeated exposure) Category 1 respiratory system Acute aquatic toxicity Chronic aquatic toxicity **Pictograms** 

Category 4 Category 1 Category 1 Category 1 Category 2 Category 2 Category 1, Category 2, Category 3

Category 1

Category 2 Category 2

# Signal word

Hazard statements

H314 - Causes severe skin burns and eye damage

Danger

- H318 Causes serious eye damage
- H332 Harmful if inhaled
- H341 Suspected of causing genetic defects
- H351 Suspected of causing cancer
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H317 May cause an allergic skin reaction
- H411 Toxic to aquatic life with long lasting effects

- H401 Toxic to aquatic life
- H370 Causes damage to the following organs: respiratory system
- H371 May cause damage to the following organs: blood system
- H372 Causes damage to the following organs through prolonged or repeated exposure: respiratory system

### Precautionary statements-(Prevention)

- Obtain special instructions before use
  Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- · Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

### **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
- If skin irritation or rash occurs: Get medical advice/attention
- · 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
- Collect spillage
- Precautionary statements-(Storage)
  - Store in a well-ventilated place. Keep container tightly closed
  - 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-29-8551
Chromogranin A Standard	-	N/A	N/A	N/A	N/A-29-8552
Biotin-conjugated Chromogranin A	-	N/A	N/A	N/A	N/A-29-8553
Anti-Human Chromogranin A Antibody	-	N/A	N/A	N/A	N/A-29-8554
Peroxidase-conjugated Streptavidin Solution	-	N/A	N/A	N/A	N/A-29-8555
Substrate Buffer	-	N/A	N/A	N/A	N/A-29-8556
OPD tablet	-	N/A	N/A	N/A	N/A-29-8557
Stop Solution	-	N/A	N/A	N/A	N/A-29-8558
Buffer	-	N/A	N/A	N/A	N/A-29-8559
Wash Solution	-	N/A	N/A	N/A	N/A-29-8561
Plate Seal	-	N/A	N/A	N/A	N/A-29-8562

Note on ISHL No.:

\* in the table means announced chemical substances.

Hazardous Component

Sulfuric Acid 9.69%, o-Phenylenediamine 2HCI, Ethylenediaminetetraacetic acid disodium salt

### dihydrate 17.7%

# 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 7664-93-9	Ceiling: 1 mg/m <sup>3</sup>	N/A	TWA 0.2mg/m <sup>3</sup>
o-Phenylenediamine Dihydrochloride 615-28-1	N/A	N/A	TWA , 0.1mg/m³; (o-フェニレンジアミンとし て)

### 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

For	m	
	Δni	n

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 Particle characteristics no data available 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 Strong oxidizing agents Hazardous decomposition products Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

Based on the NITE GHS

classification results.

# 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	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	Acute toxicity -inhalation dust	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
<u> </u>			

Based on the NITE GHS

classification results.

### Skin irritation/corrosion

Sulfuric Acid

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 (Japan)	
Sulfuric Acid	-	Group 1	A2	-	
7664-93-9					
o-Phenylenediamine Dihydrochloride		Group 2B			
615-28-1					
Reproductive toxicity					
Chemical Name		Reproductive toxicity source information			
Sulfuric Acid		Based on the NITE GHS classification results.			

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.	
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

### 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 UN2796 **UN number** Proper shipping name: Sulphuric acid **UN classfication** 8 Subsidiary hazard class Packing group Ш Marine pollutant Yes IMDG **UN number** UN2796 Sulphuric acid Proper shipping name: UN classfication 8 Subsidiary hazard class Packing group П Marine pollutant (Sea) Yes Transport in bulk according to No information available Annex II of MARPOL 73/78 and the IBC Code ΙΑΤΑ

UN number	UN2796
Proper shipping name:	Sulphuric acid
UN classfication	8
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous	Yes
Substance	

# Section 15: REGULATORY INFORMATION

<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious Substances Control Law	Not applicable Not applicable			
Industrial Safety and Health Ac			to be Indicated on the	Label (Law Art.57)
	Notifiable Substances (Law Art.57-2)			tion of Llongards Due to
	Group 3 Specified Chemical Substance, (Ordinance on Prevention of Hazards Due to			
	Specified Chemical Substances Art.2 Para.1, Item 6) Substances with Health Hazards Prevention Guideline(Carcinogenicity Substance)			ogenicity Substance)
Industrial Safety and Health Act (			(	ons Article 594-2 Paragraph 1)
2024~)				
Act on the Evaluation of	Priority Assessm	nent Chemical Substanc	es (Law Article 2, Para	a.5)
Chemical Substances and				
Regulation of Their Manufacture, etc				
Regulations for the carriage	Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding			
and storage of dangerous	Transport by Ship and Storage, Attached Table 1)		alon Oralinance Regarding	
goods in ship				
Civil Aeronautics Law	Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of			
	Explosives etc., Attached Table 1)			
Marine Pollution Prevention	Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y			
Pollutant Release and Transfer	Class			
Register Law (2023.4.1-)				
Class 1 - No.	595			
Pe	ollution Release	and Transfer Registry	(~2023.3.31)	
Class Chemi	cal Name in	(Metal Name)	Control number	Content Rate
Regula				
	nediamine		595	17.7
tetraacetic acid Industrial Safety and Health Law				

Industrial Safety and Health Law				
Law Name	Chemical Name in Regulation	Weight %		
Notifiable Substances (Law Art.57-2)	Sulfuric acid	9.69	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

# 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