SAFETY DATA SHEET

Issue Date 21-Aug-2025
Revision Number 1.03

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name Human Chromogranin A ELISA Kit Wako
Other means of identification
Product Code(s) 292-85501

Recommended use of the chemical and restrictions on use
Recommended Use For research use only.
Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet

Manufacturer Address
FUJIFILM Wako Pure Chemical Corporation
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2. HAZARDS IDENTIFICATION

GHS classification
Classification of the substance or mixture

Corrosive to metals	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 1, Category 3
Category 1 respiratory system, blood system	
Category 3 Respiratory irritation, Narcotic effects	
Specific target organ toxicity (repeated exposure)	Category 1, Category 2
Category 1 respiratory system	
Category 2 nasal cavity, kidneys, urinary bladder, blood system	
Chronic aquatic toxicity	Category 2

Pictograms

Signal word Danger

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
H341 - Suspected of causing genetic defects

H350 - May cause 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
H370 - Causes damage to the following organs: respiratory system, blood system
H372 - Causes damage to the following organs through prolonged or repeated exposure: respiratory system
H373 - May cause damage to the following organs through prolonged or repeated exposure: nasal cavity, kidneys, urinary bladder, blood 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 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 Contaminated work clothing should not be allowed out of the workplace Wear protective gloves 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 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
Collect spillage Absorb spillage to prevent material damage

Precautionary statements-(Storage)

Store locked up Store in a well-ventilated place. Keep container tightly closed 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Kit (Set of mixtures)

Chemical Name	Molecular weight	CAS RN	Weight-%
Antibody-coated Plate	N/A	N/A-29-8551	-
Chromogranin A Standard	N/A	N/A-29-8552	-
Biotin-conjugated Chromogranin A	N/A	N/A-29-8553	-
Anti-Human Chromogranin A Antibody	N/A	N/A-29-8554	-
Peroxidase-conjugated Streptavidin Solution	N/A	N/A-29-8555	-
Substrate Buffer	N/A	N/A-29-8556	-
OPD tablet	N/A	N/A-29-8557	-
Stop Solution	N/A	N/A-29-8558	-
Buffer	N/A	N/A-29-8559	-
Wash Solution	N/A	N/A-29-8561	-
Plate Seal	N/A	N/A-29-8562	-

Impurities and/or Additives： Not applicable

Substances Remarks: This Product includes the following componets. Sulfuric Acid 9.69 %, o-Phenylenediamine 2HCl <10 %, Ethylenediaminetetraacetic acid disodium salt dihydrate 17.7 %, Sodium carbonate 15 - 25 %, Sodium Chloride 15 - 25 %

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

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.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical
Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data
Sensitivity to Mechanical Impact none.
Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Avoid contact with alkaline substances. Avoid contact with metal.
Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Store away from sunlight in a cool (2-10 °C) well-ventilated dry place.

Incompatible materials alkaline substances. Metals.

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	ACGIH	OSHA PEL	NIOSH IDLH
Sulfuric Acid 7664-93-9	TWA 0.2mg/m³	TWA: 1 mg/m³ (vacated) TWA: 1 mg/m³	IDLH: 15 mg/m³ TWA: 1 mg/m³
o-Phenylenediamine Dihydrochloride 615-28-1	TWA , 0.1mg/m³; (o-フェニレンジアミンとして)	N/A	N/A

Personal protective equipment

Respiratory protection Gas mask for acidic gas (JIS T 8152)
Hand protection chemical protective gloves (JIS T 8116)
Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)
Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Appearance Kit (Set of mixtures)
Odor no data available
pH no data available
Melting point/freezing point no data available
Boiling point, initial boiling point and boiling range no data available
Flash point 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
Vapour pressure no data available
Vapour density no data available
Specific Gravity / Relative density no data available
Solubilities
n-Octanol/water partition coefficient:(log Pow) no data available
Auto-ignition temperature: no data available
Decomposition temperature: no data available
Viscosity (coefficient of viscosity) no data available
Dynamic viscosity no data available
Particle characteristics no data available

10. STABILITY AND REACTIVITY

Stability

Chemical stability Stable under recommended storage conditions.
Reactivity no data available

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), Nitrogen oxides (NOx), Sulfur oxides (SOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Carbonate	2,800 mg/kg (Rat)	>2,000 mg/kg (Rabbit)	1.2 mg/L (Rat) 4 h
Sulfuric Acid	2140 mg/kg (Rat)	N/A	0.375 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Sodium Carbonate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	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	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Sodium Carbonate	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	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
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.

o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

Chemical Name	NTP	IARC	ACGIH	JSOH
Sulfuric Acid 7664-93-9	-	Group 1	A2	-
o-Phenylenediamine Dihydrochloride 615-28-1	N/A	Group 2B	N/A	Group 2B

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

Aspiration hazard

Chemical Name	Aspiration Hazard source information
Sodium Carbonate	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
o-Phenylenediamine Dihydrochloride	Based on the NITE GHS classification results.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Sodium Carbonate 497-19-8	EC50 : Nitzschia 242 mg/L 120 h	LC50 : Lepomis macrochirus 300 mg/L 96 h	N/A	EC50 : Daphnia magna 250 mg/L 48 h
Sulfuric Acid 7664-93-9	N/A	LC50 : Lepomis macrochirus 16 - 28 mg/L 96 h	N/A	LC50 : Daphnia magna 29 mg/L 24 h

Persistence and degradability
No information available

Bioaccumulative potential
No information available

Mobility
no data available

Mobility in soil No information available
Other Data No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Precautionary including method of disposing contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID No	UN2796
Proper shipping name:	Sulphuric acid
UN classfication	8
Subsidiary hazard class	
Packing group	II
Marine pollutant	Yes

IATA

UN/ID No	UN2796
Proper shipping name:	Sulphuric acid
UN classfication	8
Subsidiary hazard class	
Packing group	II
Environmentally Hazardous Substance	Yes

IMDG

UN/ID No	UN2796
Proper shipping name:	Sulphuric acid
UN classfication	8
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Yes

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS RN	Weight-%	SARA 313 - Threshold Values %
Antibody-coated Plate - N/A-29-8551	N/A-29-8551	-	N/A
Chromogranin A Standard - N/A-29-8552	N/A-29-8552	-	N/A
Biotin-conjugated Chromogranin A - N/A-29-8553	N/A-29-8553	-	N/A
Anti-Human Chromogranin A Antibody - N/A-29-8554	N/A-29-8554	-	N/A
Peroxidase-conjugated Streptavidin Solution - N/A-29-8555	N/A-29-8555	-	N/A
Substrate Buffer - N/A-29-8556	N/A-29-8556	-	N/A
OPD tablet - N/A-29-8557	N/A-29-8557	-	N/A
Stop Solution - N/A-29-8558	N/A-29-8558	-	N/A
Buffer - N/A-29-8559	N/A-29-8559	-	N/A
Wash Solution - N/A-29-8561	N/A-29-8561	-	N/A
Plate Seal - N/A-29-8562	N/A-29-8562	-	N/A

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65
This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations
U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Issue Date 21-Aug-2025
Revision Note
No information available
Disclaimer
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, use, processing, storage, transportation, disposal and release 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.

End of Safety Data Sheet