



SAFETY DATA SHEET

According to JIS Z 7253:2019 Issue Date 18-Dec-2024 Revision Number 1.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	CTGF(Full+N-terminal region) ELISA Kit Wako
Product Code	292-84901

Supplier FUJIFILM Wako Pure Chemical Corporation

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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 1Skin sensitizationCategory 1Specific target organ toxicity (single exposure)Category 1

Category 1 respiratory system

Specific target organ toxicity (repeated exposure)

Category 1 respiratory system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 3
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

H317 - May cause an allergic skin reaction

H402 - Harmful to aquatic life

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

Category 1

- 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
- Contaminated work clothing should not be allowed out of the workplace
- · 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
- 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-29-8491
CTGF Standard	-	N/A	N/A	N/A	N/A-29-8492
Buffer	-	N/A	N/A	N/A	N/A-29-8493
Biotin-conjugated Antibody Solution	-	N/A	N/A	N/A	N/A-29-8494
Peroxidase-conjugated Streptavidin Solution	-	N/A	N/A	N/A	N/A-29-8495
TMB Solution	-	N/A	N/A	N/A	N/A-29-8496
Stop Solution	-	N/A	N/A	N/A	N/A-29-8497
Wash Solution(10x)	-	N/A	N/A	N/A	N/A-29-8498
Standard Sample Buffer	-	N/A	N/A	N/A	N/A-29-8499
Plate Seal	-	N/A	N/A	N/A	N/A-29-8501

Note on ISHL No.:

Substances Remarks:

This Product includes the following componets. Sulfuric Acid 6.9 %, Sodium Chloride 20 - 30 %, 2-Methyl-2H-isothiazol-3-one <1.0 %

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

^{*} in the table means announced chemical substances.

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 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

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

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 Alkali, 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

Respiratory protectionGas 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.

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

Odor

Melting point/freezing point

Boiling point, initial boiling point and boiling range
Flammability

Evaporation rate:

Flammability (solid, gas):

Kit (Set of mixtures)

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: Decomposition temperature:** no data available no data available Viscosity (coefficient of viscosity) no data available no data available Dynamic viscosity **Solubilities** no data available n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure Specific Gravity / Relative density no data available Vapour density no data available no data available Particle characteristics

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

Alkali, Metals

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

Section	11-	TOYICOL	OCICAL	INFORMATION
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*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Methyl-2H-isothiazol-3-one	232 - 249 mg/kg (Rat) 120 mg/kg (Rat)	200 mg/kg (Rabbit)	0.11 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
Sulfullo / tola			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
Gairaile 7 tola			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.
Out to the second the standard to the second	

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.
Poproductive cell mutagonicity	

Reproductive cell mutagenicity

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

Carcinogenicity

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	-
7664-93-9				

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

	OTOT Topoutou 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

^{*}NITE: National Institute of Technology and Evaluation (JAPAN)

https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Methyl-2H-isothiazol-3-one	N/A	LC50 : Oncorhynchus mykiss	EC50 : Daphinia magna
_		0.07 mg/L 96 h	0.18 mg/L 48 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	Long-term (chronic) hazardous to the aquatic environment source information
		Based on the NITE GHS classification
r	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 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 8
Subsidiary hazard class
Packing group II
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable **Poisonous and Deleterious** 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

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

Chemical Substances Hazardous to Skin, etc. (Regulations Article 594-2 Paragraph 1) Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Regulations for the carriage and storage of dangerous

Transport by Ship and Storage, Attached Table 1)

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 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

induction carety and recurrent			
Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Sulfuric acid	6.9	Existing Law

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

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. Hazards identification. Composition/information on ingredients. Handling and storage. Exposure controls/personal protection. Stability and reactivity. Toxicological information. Ecological information. Transport information. 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