



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 01-Mar-2024

Revision Number 2.04

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Mouse/Rat PYY ELISA Kit Wako
Product Code	291-73501

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

Acute toxicity - Inhalation (Vapors)Category 4Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Reproductive ToxicityCategory 1B

Specific target organ toxicity (single exposure) Category 1, Category 3

Category 1 respiratory system
Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 respiratory system



Signal word



Hazard statements

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H360 - May damage fertility or the unborn child

H336 - May cause drowsiness or dizziness

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)

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood

Danger

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

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
Plate	-	N/A	N/A	N/A	N/A-29-7351-1
Synthetic Mouse/Rat PYY(3-36)	-	N/A	N/A	N/A	N/A-29-7352-1
Biotinylated mouse/rat PYY(3-36)	-	N/A	N/A	N/A	N/A-29-7353-1
Anti Mouse/Rat PYY(3-36), Rabbit	-	N/A	N/A	N/A	N/A-29-7354-1
HRP labeled Streptavidin	-	N/A	N/A	N/A	N/A-29-7355-1
Enzyme Substrate Solution	-	N/A	N/A	N/A	N/A-29-7356-1
Stopping Solution	-	N/A	N/A	N/A	N/A-29-7357-1
Buffer Solution	-	N/A	N/A	N/A	N/A-29-7358- 1
Washing Solution	-	N/A	N/A	N/A	N/A-29-7359-1
Adhesive Foil	-	N/A	N/A	N/A	N/A-29-7361-1

Note on ISHL No.:

Hazardous Component

Hydrogen Preoxide 1%, Sulfuric Acid 9.8%, 1-Methyl-2-pyrrolidone 20%

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.

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

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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

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

Safe packaging material No information available Incompatible substances 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
1-Methyl-2-Pyrrolidone	TWA: 1 ppm OEL	N/A	N/A
872-50-4	TWA: 4 mg/m ³ OEL		
	Skin		
Sulfuric Acid	Ceiling: 1 mg/m ³	N/A	TWA 0.2mg/m ³
7664-93-9			-
Hydrogen Peroxide	N/A	N/A	TWA: 1 ppm
7722-84-1			

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.

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

no data available

no data available

no data available

Upper/lower flammability or explosive limits

no data available Upper: no data available Lower: Flash point no data available **Auto-ignition temperature:** no data available **Decomposition temperature:** no data available no data available pН Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available No data available **Solubilities** n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available no data available Specific Gravity / Relative density no data available Vapour density **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
Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	
1-Methyl-2-Pyrrolidone	3500 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 5.1 mg/L (Rat) 4 h	
Sulfuric Acid	2140 mg/kg (Rat)	N/A	0.375 mg/L (Rat) 4 h	
Hydrogen Peroxide	1518 mg/kg (Rat)	9200 mg/kg (Rabbit)	2000 mg/m ³ (Rat) 4 h	

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	
	information	information	source information
1-Methyl-2-Pyrrolidone	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
, ,	classification results.	classification results.	classification results.
Sulfuric Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Hydrogen Peroxide	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 vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
1-Methyl-2-Pyrrolidone			Based on the NITE GHS
, , , , , , , , , , , , , , , , , , , ,	classification results.	classification results.	classification results.
Sulfuric Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Hydrogen Peroxide	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	
1-Methyl-2-Pyrrolidone Based on the NITE GHS classification results.		
Sulfuric Acid	Based on the NITE GHS classification results.	
Hydrogen Peroxide	Based on the NITE GHS classification results.	

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information	
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.	
Sulfuric Acid	Based on the NITE GHS classification results.	
Hydrogen Peroxide	Based on the NITE GHS classification results.	

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
Hydrogen Peroxide	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information	
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.	
Sulfuric Acid	Based on the NITE GHS classification results.	
Hydrogen Peroxide	Based on the NITE GHS classification results.	

Carcinogenicity

Chemical Name	Carcinogenicity source information	
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.	
Sulfuric Acid	Based on the NITE GHS classification results.	
Hydrogen Peroxide	Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Sulfuric Acid	-	Group 1	A2	-
7664-93-9		•		
Hydrogen Peroxide	-	Group 3	A3	-

7700 04 4	
7722-84-1	
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
Hydrogen Peroxide	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
Hydrogen Peroxide	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.
Hydrogen Peroxide	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification results.
Sulfuric Acid	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Based on the NITE GHS classification results.

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
1-Methyl-2-Pyrrolidone	EC50 : Desmodesmus subspicatus > 500 mg/L 72 h	LC50 : Oncorhynchus mykiss > 500 mg/L 96 h	EC50 : Daphnia magna > 1000 mg/L 24 h
Sulfuric Acid	N/A	LC50:Lepomis macrochirus 16 - 28 mg/L 96 h	LC50:Daphnia magna 29 mg/L 24 h
Hydrogen Peroxide	EC50 : Nitzschia sp. 0.85 mg/L 72 h	LC50 : Oncorhynchus mykiss 10.0 - 32.0 mg/L 96 h	EC50 : Daphnia magna 18 - 32 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	
1-Methyl-2-Pyrrolidone	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	
Sulfuric Acid	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results	results	
Hydrogen Peroxide	Based on the NITE GHS classification	Based on the NITE GHS classification	
	results.	results.	

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

Hydrogen Peroxide

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 UN3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid)

UN classfication Subsidiary hazard class

Packing group Ш

Not applicable Marine pollutant

IMDG

UN number UN3264

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid)

UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN number UN3264

Corrosive liquid, acidic, inorganic, n.o.s. (Diluted Sulfuric Acid) Proper shipping name:

UN classfication

Subsidiary hazard class

Packing group Ш

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 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)

Industrial Safety and Health Act (

2024~)

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Act on the Evaluation of **Chemical Substances and** Regulation of Their

Manufacture, etc

Regulations for the carriage and storage of dangerous

goods in ship

Transport by Ship and Storage, Attached Table 1)

Civil Aeronautics Law

Corrosive Substances (Ordinance Art.194, MITL Nortification for Air Transportation of

Corrosive Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Explosives etc., Attached Table 1)

Marine Pollution Prevention

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Register Law

Pollutant Release and Transfer Specified Class 1 No.

(2023.4.1-)

746 Class 1 - No.

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Export Trade Control Order Not applicable **Air Pollution Control Law Specified Substances**

Pollution Release and Transfer Registry (~2023.3.31)

Class Chemical Name in (Metal Name) Control number **Content Rate**

	Regulation		
Class 1	1-Methyl-2-pyrrolidinone	746	20%

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	Hydrogen peroxide	1%	Existing Law
Notifiable Substances (Law Art.57-2)	N-Methyl-2-pyrrolidone	20%	Existing Law
Notifiable Substances (Law Art.57-2)	Sulfuric acid	9.8%	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 Disclaimer The following contents were revised. Regulatory information.

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