



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 28-Feb-2024

Revision Number 2.07

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Thimerosal
Product Code	202-18991,208-18993,200-18992
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

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Emergency telephone number +81-6-6203-3741 / +81-Recommended uses +81-6-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 - OralCategory 3Skin sensitizationCategory 1Reproductive ToxicityCategory 1BSpecific target organ toxicity (single exposure)Category 1

Category 1 nervous system, blood system, kidneys

Specific target organ toxicity (repeated exposure) Category 1

Category 1 nervous system

Pictograms



Signal word

Danger

Hazard statements

H301 - Toxic if swallowed

H360 - May damage fertility or the unborn child

H317 - May cause an allergic skin reaction

H370 - Causes damage to the following organs: nervous system, blood system, kidneys

H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous 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

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth

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 Substance

Formula C9H9HgNaO2S

	Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
ĺ	Thimerosal	95.0	404.81	-	N/A	54-64-8

Note on ISHL No.:

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

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

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. 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 Keep container protect from light, store

in well-ventilated place at room temperature (preferably cool). Keep container tightly

closed. Store locked up.

Safe packaging material Glass

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 This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

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

Color White - brown

Appearance crystalline powder - powder
Odor no data available

Melting point/freezing pointno data availableBoiling point, initial boiling point and boiling rangeno data availableFlammabilityno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or explosive limits

Upper:
Lower:
no data available
pH
6.0 - 8.0 (10 g/L, 25 °C)

Viscosity (coefficient of viscosity)

no data available

pynamic viscosity

no data available

Solubilities water: soluble. Ethanol and acetone: practically insoluble.

n-Octanol/water partition coefficient:(log Pow)
No data available
Napour pressure
No data available
Napour density
Napour density
No data available
Particle characteristics
No data available
No data available
No data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available
Chemical stability May be altered by light.

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), Sulfur oxides (SOx), Metal oxides

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Thimerosal	75 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Timilo: ooai		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
Thimerosal	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	
Thimerosal	Based on the NITE GHS classification results.	

Serious eye damage/irritation

Aspiration Hazard source information

Based on the NITE GHS classification results.

Chemical Name	Serious eye damage/irritation source information
Thimerosal	Based on the NITE GHS classification results.
Respiratory or skin sensitization	<u> </u>
Chemical Name	Respiratory or Skin sensitization source information
Thimerosal	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Thimerosal	Based on the NITE GHS classification results.
Carcinogenicity	·
Chemical Name	Carcinogenicity source information
Thimerosal	Based on the NITE GHS classification results.
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Thimerosal	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Thimerosal	Based on the NITE GHS classification results.
STOT-repeated exposure	•
Chemical Name	STOT -repeated exposure- source information
Thimerosal	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity No information available

Chemical Name

Thimerosal

Other data

Aspiration hazard

Other data		
Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Thimerosal	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

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 UN2025

Proper shipping name: Mercury compound, solid, n.o.s. (Thimerosal)

UN classification 6.1

Subsidiary hazard class

Packing group III

Marine pollutant Yes

IMDG

UN number UN2025

Proper shipping name: Mercury compound, solid, n.o.s. (Thimerosal)

UN classfication 6.1
Subsidiary hazard class P
Packing group III
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 UN2025

Proper shipping name: Mercury compound, solid, n.o.s. (Thimerosal)

UN classification 6.

Subsidiary hazard class

Packing group III
Environmentally Hazardous Yes

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Poisonous Substances 2nd. Grade

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 2 Specified Chemical Substance

Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

2024~)

Regulations for the carriage Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

and storage of dangerous Regarding Transport by Ship and Storage, Attached Table 1)

goods in ship

Civil Aeronautics Law Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention Marine pollutants (P and PP substances)

Law

Pollutant Release and Transfer Class 1

Register Law (2023.4.1-)

Class 1 - No. 237

Water Pollution Control Act Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating

Wastewater Standards Art.1)

Export Trade Control Order Appendix 2 Export Approval Item
Air Pollution Control Law Priority Chemical Substances
Soil Contamination Control LawDesignated Hazardous Substances

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Thimerosal 54-64-8 (95.0)	Applicable	Applicable	Applicable

Section 16: OTHER INFORMATION

Key literature references and NITE: National Institute of Technology and Evaluation (JAPAN)

sources for data etc. 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