

MATERIAL SAFETY DATA SHEETAccording to Regulation No. 1907/2006/EC – REACH (GB)
THIMEROSAL

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1 Identification of the substance / preparation and of the company**1.1 Product identifier:** THIMEROSAL USP/BP/EP**1.2 Relevant identified uses of the substance or mixture and uses advised against**
Preservation of eye drops, vaccines.**1.3 Details of the manufacturer**Company: GIHON Laboratorios Químicos SRL.; Mar del Plata, ARGENTINA.
Contact details: Telefax: (+54-223) 464-2567
E-Mail: contact@gihonlab.com / QA@gihonlab.com**1.4 Emergency phone**

(+54-223) 464-3610 / 464-0369

**2 Hazards identification****2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**Acute Tox. 2, H330
Acute Tox. 1, H310
Acute Tox. 2, H300
STOT RE 2, H373
Aquatic Chronic 1, H410**2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC**

T+-N, R 26/27/28-33-50/53

2.2 Label elements**Hazard pictograms****Signal word**
ContainsDANGER
Thiomersal EU-INDEX 080-004-00-7**Hazard statements**H330 Fatal if inhaled.
H310 Fatal in contact with skin.
H300 Fatal if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.**Precautionary statements**

P308 P311 IF exposed or concerned: Call a POISON CENTER or

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doctor/physician.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing.
P304 P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P303 P361 P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.
Only for industry consumers.

Special labelling

2.3 Other hazards

Physico-chemical hazards See chapter 10.

Environmental hazards The product/the substance has the Water Hazard Class 3.

Other hazards Further hazards were not determined with the current level of knowledge.

3 Composition / Information on ingredients

3.1 Substances

Range [%]	Substance
100	Thiomersal
	CAS: 54-64-8, EINECS/ELINCS: 200-210-4 EU-INDEX: 080-004-00-7 ECB-Nr.:
	GHS/CLP: Acute Tox. 2, H330 - Acute Tox. 1, H310 - Acute Tox. 2, H300 - STOT RE 2, H373 - H410
	EEC: T+-N, R26/27/28-33-50/53

3.2 Mixtures

The product in question is a substance.

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation Consult a doctor immediately.
Remove the victim into fresh air and keep him calm.

Skin contact Consult a doctor immediately.

In case of contact with skin wash off immediately with soap and water.

Eye contact In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.

Ingestion Consult a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Induce the patient to vomit of his own accord only if fully conscious.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Water spray jet.

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Dry powder.
Carbon dioxide.
Alcohol-resistant foam.
Extinguishing media that must not be used
Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Very toxic gases/vapours.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.
Do not inhale explosion and/or combustion gases.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.
Avoid dust formation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).
Keep people away and stay on the upwind side.
Do avoid any (skin) contact with the product.
Use breathing apparatus if exposed to dust.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Clean contaminated areas afterwards thoroughly.
Avoid raising dust.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See Chapter 7+8

7 Handling and storage**7.1 Precautions for safe handling**

Avoid the formation and deposition of dust.
Provide suitable vacuuming at the processing area.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original tightly closed container.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container in a well-ventilated place.
Keep under lock and key. Should only be accessible to specialists or people authorized by them.
Recommended storage temperature: 15-25 °C.
Store in a dark place.
Store in a dry place.

7.3 Specific end use(s)

See product information.

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8 Exposure controls / personal protection**8.1 Control parameters**

not applicable

8.2 Exposure controls**Additional advice on system design**Ensure adequate ventilation on workstation.
Using suitable discharges or exhaust ventilation.**Eye protection**

Tightly fitting goggles.

Hand protectionNitrile rubber, >480 min (EN 374).
The details concerned are recommendations. Please contact the glove supplier for further information.**Skin protection**

Protective overalls.

OtherAvoid contact with eyes and skin.
The product is to be handled only by regularly instructed technical personnel.
Do not inhale dust.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Remove contaminated soaked clothing immediately and dispose of safely.
Do not eat, drink, smoke or take drugs at work.
Keep away from food and drink.
Wash face and/or hands before break and end of work.
Use barrier skin cream.**Respiratory protection**Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, special gas filter, Hg-P3.**Thermal hazards**

not applicable

Delimitation and monitoring of the environmental exposition

See Chapter 6+7.

9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	powder
Color	white
Odor	odourless
	not determined
pH-value [1%]	~ 6,7
Boiling point [°C]	not applicable
Flash point [°C]	250
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m³]	500 kg/m³
Solubility in water	soluble
Partition coefficient [noctanol/water]	~ 1,88
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	232 - 233
Autoignition temperature [°C]	not determined
Decomposition temperature	> 233

9.2 Other information

none

10 Stability and reactivity**Administration & Plant:**Calle 4 y 5, Parque Industrial General Savio
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10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with aluminium.
Reactions with reducing agents.
Reactions with strong alkalis.
Reactions with strong acids.
Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See chapter 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

Very toxic gases/vapours.

11 Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Thiomersal, CAS: 54-64-8

LD50, oral, Rat: 75 mg/kg (RTECS)

Serious eye damage/irritation

not determined

Skin corrosion/irritation

not determined

Respiratory or skin sensitisation

not determined

STOT-single exposure

not determined

STOT-repeated exposure

not determined

Mutagenicity

not determined

Reproduction toxicity

not determined

Carcinogenicity

not determined

General remarks

The presented informations are based on literature-research.

12 Ecological information**12.1 Toxicity**

Thiomersal, CAS: 54-64-8

LC50, (24h), fish: 7,5 mg/l. M = 1

12.2 Persistence and degradability

not determined

Behaviour in environment compartments

not determined

Behaviour in sewage plant

not determined

Biological degradability

not determined

12.3 Bioaccumulative potential

log Pow: ~ 1,88

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment**Administration & Plant:**

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not determined

12.6 General information

none

13 Disposal considerations**13.1 Waste treatment methods****Product**

Coordinate the waste disposal with the national authorities.

Waste no. (recommended)Dispose of as hazardous waste.
Dispose of as hazardous waste.
Coordinate disposal with the authorities if necessary.
060404***Contaminated packaging****Waste no. (recommended)**Contaminated packing should be disposed of as product waste.
150110***14 Transport information****14.1 UN number**

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name**Classification according to ADR****- Classification Code**UN 2025 MERCURY COMPOUND, SOLID, N.O.S. (Thiomersal) 6.1 N II
T5**- Label****- ADR LQ****- ADR 1.1.3.6 (8.6)****Classification according to IMDG**LQ18: 1 kg
Transport category (tunnel restriction code) 2 (D/E)
UN 2025 MERCURY COMPOUND, SOLID, N.O.S. (Thiomersal) 6.1 II MARINE
POLLUTANT
F-A, S-A**- EMS****- Label****- IMDG LQ****Classification according to IATA****- Label**0,5 kg
UN 2025 MERCURY COMPOUND, SOLID, N.O.S. (Thiomersal) 6.1 II**14.3 Transport hazard class(es)**

See point 14.2 in accordance with UN shipping name

14.4 Packing group**Administration & Plant:**Calle 4 y 5, Parque Industrial General Savio
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	See point 14.2 in accordance with UN shipping name
14.5 Environmental hazards	See point 14.2 in accordance with UN shipping name
14.6 Special precautions for user	Relevant information under points 6 to 8.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	not determined

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
EEC-REGULATIONS	1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits with amendments October 2007. CHIP 3/ CHIP 4

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

16 Other information

R-phrases (Chapter 03)	R 26/27/28: Very toxic by inhalation, in contact with skin and if swallowed. R 33: Danger of cumulative effects. R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Hazard statements (Chapter 03)	H330 Fatal if inhaled. H310 Fatal in contact with skin. H300 Fatal if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Observe employment restrictions for people	yes

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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