


Page 1 of 5 Print Date 22.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Thiomersal	 Revision Date 22.11.2018
--	--	---

1 Identification of the substance/mixture and of the company/undertaking

- **Informations to product No. 6696**
- **Product name:**

Thiomersal
Thiomersalum

- **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

- **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

- **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

- **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

- **GHS-Labeling Elements:**



- **Signal word :** Danger

- **H-Phrases:**


H301 Toxic if swallowed
H310 Fatal in contact with skin
H330 Fatal if inhaled
H373 May cause damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

- **P-Phrases:**

P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician
P273 Avoid release to the environment

Acute Tox. 3 (oral)

Acute Tox. 1 (dermal)

Page 2 of 5 Print Date 22.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Thiomersal	 Revision Date 22.11.2018
--	--	---

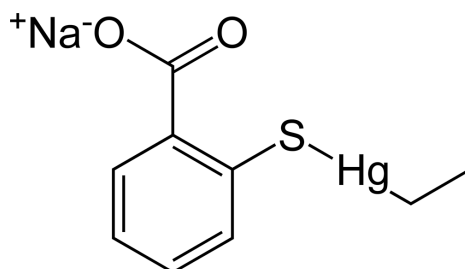
Acute Tox. 2 (inhal.)
STOT RE 2
Aquatic Acute 1
Aquatic Chronic 1

3 Composition / information on ingredients

CAS-No. Substance name

54-64-8 Thiomersal

- **EINECS-No.:** 200-210-4
- **Index-No.:** 080-004-00-7
- **REACH Reg. No.:** 05-2114099257-37-0000
- **INCI-Name:** Thimerosal
- **Chemical characterization:**




4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
Wash away with Polyethylenglycol 400.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible but not flammable. In case of fire dangerous gases / vapours can be released: Smoke gases, mercury vapours.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

<p>Page 3 of 5</p> <p>Print Date 22.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Thiomersal</p>	 <p>Revision Date 22.11.2018</p>
---	---	---

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.
- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed. Protect from light. Accessible only for professional persons.

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

7439-97-6 organic mercury compounds.

MAK: 0,01 mg/m³

As mercury in dust.


- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 232 - 233 °C Decomposition
- **Sublimation temperature:** > 233 °C
- **Bulk density:** 500 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) readily soluble
- **pH-range:** (10 g/l, 20 °C) 6,7 - 8,2

10 Stability and reactivity

- **Materials to avoid:** Aluminium, reductants.
- **Hazardous decomposition products:** very toxic mercury vapour.

<p>Page 4 of 5</p> <p>Print Date 22.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Thiomersal</p>	 <p>Revision Date 22.11.2018</p>
---	---	---

11 Toxicological information

- **Acute toxicity:**

LD/LD50-data relevant for hazard classification:

54-64-8 Thiomersal

Oral: LD50: 75 mg/kg (rat)

Dermal: ATE 5 mg/kg

Inhal.: Vapour: ATE 0,5 mg/kg

Inhal.: Aerosol: ATE 0,05 mg/kg

- **Sensitization:**

Sensitization with allergic manifestations at sensible persons possible.

- **Sub-acute / chronic toxicity:** For organic mercury compounds generally: After enduring exposition disorder / damage of nervous system.

- **Additional toxicological informations:** Danger by skin resorption.

Pregnant women should not be exposed to the product.

The classification as fatal if inhaled is valid for the alveolar fine dust fraction.

12 Ecological information

- **Ökotoxikologische Daten:**

LC50 (Fische): 7,5 mg/l.

- **Log pOW:** 1,88

- **Water hazard class:** 3 (VwVwS): very hazardous for water.

- **General advices:** Prevent from leaking into ground water, environment waters or drainage, even not in small quantities. Danger for drinking water even if smallest quantities are penetrating into soil.

13 Disposal considerations

- **Product:**

- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

- **Empty contaminated packaging:**

- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**

- **Proper shipping name:** Toxic solids, organic, n.o.s. (Thiomersal)

- **Class:** 6.1

- **UN-number:** 2811

- **Packing group:** II

- **Classification code:** T2

- **Limited quantities (Table 3.4.6. ADR):** 1 kg


- **Hazard classification number:** 60

- **Special provisions (Chapter 3.3 ADR):** -

- **Additional informations for sea transport IMDG:**

- **EMS-No.:** F-A, S-A

- **Properties:** -

Page 5 of 5 Print Date 22.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Thiomersal	 Revision Date 22.11.2018
--	--	---

15 Regulatory information

· **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

· **Hazard symbols:** GHS06, GHS08, GHS09

· **Signal word :** Danger

· **H-Phrases:**

H301 Toxic if swallowed

H310 Fatal in contact with skin

H330 Fatal if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

· **P-Phrases:**

P264 Wash thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P301 IF SWALLOWED:

P310 Immediately call a POISON CENTER or doctor/physician

P273 Avoid release to the environment

· **National regulations (Germany):**

· **Water hazard class:** see chapter 12

· **Storage class TRGS 510:** 6.1A

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.