

SAFETY DATA SHEET

Prepared in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of REACH chemicals (Official Journal of the European Union No L 203 of 26/06/2020).

Antiserum For Slide Agglutination Of *Salmonella*

Document symbol: KCH/S/1EN, edition 03, created on 15.02.2024

Section 1: Identification of the substance / mixture and of the company

1.1. Product ID

Antiserum For Slide Agglutination Of *Salmonella*

Catalog number (from-to): S002- S060, H061-H110, P001-P010, PS004-PS006
SX002-SX060, SZ061-SZ110, SY001-SY010
SS002-SS060, SH061-SH110, SP001-SP010
HS165, HS186, HS189, HS265, HS286, HS289,
HS365, HS386, HS389, HS565, HS586, HS589

1.2. Relevant identified uses of the substance or mixture and uses advised against

The antiserum for slide agglutination of *Salmonella* is intended for the serological identification of Gram-negative *Salmonella*.

The use of the preparation is not recommended

No data.

1.3. Details of the supplier of the safety data sheet

Company name: Research & Development Department of Salmonella Center Ltd. "IMMUNOLAB"
(Zakład Badawczo-Wdrożeniowy Ośrodek Salmonella "IMMUNOLAB" sp. z o.o.)

Full address: Kładki 24 Street, 80-822 Gdańsk, Poland

Phone number: (58) 781 44 91

E-mail address: info@immunolab.com.pl

1.4. Emergency telephone number

112



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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

The product is not classified as hazardous.

2.2. Label elements

Not applicable.

2.3. Other dangers

The components of the mixture do not meet the PBT or vPvB criteria according to Annex XIII to the Regulation (EC) 1907/2006 (REACH) in the version in force.

SECTION 3: Composition / information on ingredients.

3.1. Substances

Not applicable.

3.2. Mixtures

3.2.1. Hazardous mixtures

Not applicable.

3.2.2. Mixtures not classified as hazardous

Dangerous ingredient

Thiomersal (organic mercury compound) - content in the mixture 0,01%, converted to mercury - about 0,005%. When the mercury content in the preparation is below the limit concentration, i.e. 0,05%, it is not classified.

CAS No.: 54-64-8, EC No.: 200-210-4, Index No.: 080-004-00-7



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Classification and labeling according to Regulation (EC) No 1272/2008:

Acute toxicity, Category 2, Inhalation, H330

Acute toxicity, Category 1, Dermal, H310

Acute toxicity, Category 2, Oral, H300

Specific target organ toxicity - repeated exposure, Category 2, H373

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 1, H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After contact with the skin

Wash off with plenty of water, take off contaminated clothes.

After contact with the eyes

Rinse with plenty of water with the eyelids held wide open. Consult an ophthalmologist if necessary.

After eating

Rinse mouth with water. Give the sufferer a large amount of water to drink, do not induce vomiting. Give activated charcoal. In case of symptoms, consult a doctor.

After inhalation

Provide access to fresh air. Personal protective equipment for first aiders is not recommended.

4.2. The most important acute and delayed symptoms and effects of exposure

No data.



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4.3. Indication of any immediate medical aid and special treatment of the victim

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Depending on the objects in the vicinity, use appropriate extinguishing media: foam, water, CO₂, extinguishing powder.

5.2. Special hazards related to the substance or mixture

Non-flammable product. Formation of hazardous gases possible in the event of fire.

5.3. Information for the fire brigade

Follow the procedures for extinguishing chemicals.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Not applicable.

6.1.2. For people giving help

Not applicable.

6.2. Environmental precautions

Do not allow product to reach sewage system, water, sewage and soil.

6.3. Methods and materials preventing the spread of contamination and used for removing contamination

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Collect with a disposable paper towel, recycle. Then wash the contaminated surface with water and a disinfectant.

6.4. Reference to other sections

Protective equipment and clothing - section 8.

Waste treatment - section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Work with antiserum in conditions that limit exposure to external factors, protect against light and contamination, tightly closing the bottle after each use. Bring the serum to room temperature 18-24°C before use. In case of turbidity, centrifuge the serum. Wash hands after use. Do not eat, drink or smoke in the workplace.

7.2. Conditions for safe storage, including any information mutual incompatibility

Store at a temperature of 2°C to 8°C. Don't freeze! Protect from light.

7.3 Specific end use(s)

Handle the substance in accordance with the principles of good laboratory practice and the general principles of occupational health and safety at work with *in vitro* diagnostic medical devices and with chemicals.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Control parameters (NDS, NDSCh, NDSP) - NDS: 0,01 mg/m³, NDSCh: 0,03 mg/m³ (for organic mercury).



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8.2. Exposure controls

8.2.1. Technical control measures applied

Provide adequate general and local exhaust ventilation.

8.2.2. Individual protection measures, such as personal protective equipment

Working with the reagent does not require the use of special protective measures, diagnostic gloves and protective clothing such as for laboratory work with infectious material are recommended.

8.2.3. Environmental exposure controls

Not applicable.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- a) Physical state: liquid
- b) Color: colorless, salmon, yellowish or in various shades of red
- c) Odor: Odorless
- d) Melting point / freezing point: No data available
- e) Boiling point or initial boiling point and boiling range: not available
- f) Flammability of materials: no data available
- g) Lower and upper explosion limits: no data available
- h) Flash point: no data available
- i) Auto-ignition temperature: no data available
- j) Decomposition temperature: no data available
- k) pH: not available
- l) Kinematic viscosity: no data available
- m) Solubility: Soluble (in water)
- n) Partition coefficient n-octanol / water (log value): no data available
- o) Vapor pressure: no data available.



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- p) Relative density or density: no data available
- q) Relative vapor density: no data available
- r) Molecule characteristics: no data available

9.2. Other informations

No data.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data.

10.2. Chemical stability

The product is stable if properly stored.

10.3. Possibility of hazardous reactions

May react with strong oxidants, strong acids, bases, aluminum and reducing agents.

10.4. Conditions to Avoid

Protect the product against contamination, sunlight and freezing.

10.5. Incompatible materials

No data.

10.6. Hazardous decomposition products

No data.

SECTION 11: Toxicological information

11.1. Information on the hazard classes defined in Regulation (EC) No 1272/2008



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11.1.1. Substances:

Not applicable

11.1.2. Mixtures:

Quantitative data on the toxicity of the mixture are not available.

The assessment of the toxic effect was based on the data for a hazardous component - thiomersal:

a) Acute toxicity:

- Oral: No data available
- Acute toxicity estimated: inhalation - 4 h - 0,051 mg/l (expert opinion)
- Acute toxicity estimate: dermal - 5,1 mg/kg (expert opinion)

b) Skin corrosion / irritation: no data

c) Serious eye damage / irritation: no data

d) Respiratory or skin sensitization: no data available

e) Mutagenic effect on reproductive cells:

- Test Type: Ames Test
- Test system: *Salmonella Typhimurium*
- Result: negative
- Notes: National Toxicology Program

f) Carcinogenicity: no data available

g) Reproductive toxicity: no data available

h) Toxic effects on target organs - single exposure: no data

i) Toxic effects on target organs - repeated exposure: no data available

j) Aspiration hazard: no data available

11.2. Information about other threats

Danger of cumulative effects in the body. Mercury compounds are cytotoxic and protoplasmatoxic. Symptoms of poisoning: eye contamination causes severe lesions. Ingestion and inhalation of dusts causes damage to the mucous membranes of the digestive tract and respiratory tract (metallic taste, nausea, vomiting, abdominal pain, bloody diarrhea, intestinal burns, glottis edema, aspiration pneumonia); drop in



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blood pressure, cardiac arrhythmia, vascular or cardiac collapse, kidney damage; chronic intoxication causes stomatitis with tooth loss and mercury rim. The main symptoms are manifested in the central nervous system (including impaired speech, vision, hearing and sensitivity, memory loss, excitability, hallucinations, delirium).

In laboratory conditions, the antiserum for slide agglutination of *Salmonella* is not hazardous. Handle the substance in accordance with the principles of good laboratory practice and the general principles of occupational health and safety at work with *in vitro* diagnostic medical devices and with chemicals.

SECTION 12: Ecological information

12.1. Toxicity

No data.

12.2. Persistence and degradability

No data.

12.3. Bioaccumulative potential

No data.

12.4. Mobility in soil

No data.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Endocrine disrupting properties

No data.



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12.7. Other harmful effects

Regarding the hazardous ingredient - thiomersal: toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - dose 21,2 mg/l. Exposure time 48 hours. Bioaccumulation is not expected. Do not allow product to enter waters, sewage or soil.

SECTION 13: Disposal considerations

13.1. Waste neutralization methods

After the analysis, chemical waste should be disposed of in a specialized unit. Treat the packages with the remainder of the preparation as a product. Recycle the empty bottle.

SECTION 14: Transport information

14.1. UN number or ID number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

It is not a threat.

14.6. Special precautions for users

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In transport, ensure the conditions specified in point 7.2. In the case of glass bottles, in accordance with the general rules for the transport of glass packaging, protect the bottles from damage.

14.7. Sea transport in bulk in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Act on chemical substances and their mixtures of February 25, 2011 (Journal of Laws 2011/63/322).
- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) consolidated text as amended, with particular emphasis on Commission Regulation (EU) 453/2010 with on May 20, 2010 (amending the REACH regulation on the preparation of Safety Data Sheets for chemical substances and mixtures).
- Regulation (EC) 1272/2008 of 28 December 2008 on the classification, labeling and packaging of hazardous substances and mixtures (CLP).
- Regulation of the Minister of Health of April 20, 2012 on labeling packaging of hazardous substances and mixtures and certain mixtures (Journal of Laws 2012/000/445).
- Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws 2012/000/1018).
- Regulation of the Minister of Labor and Social Policy of 24/09/2014 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2014/000/817).
- Regulation of the Minister of Health of December 30, 2004. on occupational health and safety related to the presence of chemical agents in the workplace (Journal of Laws 2005/11/86 as amended).
- Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws 2011/33/166).

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- Regulation of the Minister of Economy of December 21, 2005 on the essential requirements for personal protective equipment (Journal of Laws 2005/259/2173).
- Act of December 14, 2012 on waste (Journal of Laws 2013/000/21).
- Regulation of the Minister of the Environment of 09/12/2014 on the waste catalog (Journal of Laws 2014/000/1923).
- Act of June 13, 2013 on packaging and packaging waste (Journal of Laws 2013/000/888).
- Material Safety Data Sheet: thiomersal.

15.2. Chemical safety assessment

Chemical safety assessment has not been carried out for the product.

SECTION 16: Other information

The safety data sheet for the antiserum for slide agglutination of *Salmonella* is not required according to Article 31 of the REACH Regulation and has been prepared in order to fully characterize the preparation we sell. The information contained in the safety data sheet of this preparation is based on the current state of our knowledge. The information given in this document relates to the product for its intended use only.