SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Trade name: Selenotest ELISA Stop Solution
Product No.: STE13
Valid from: 2017-03-01
Version: .4
Revised Version: .3
Update No.: 648

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

1.1 Product identifier
   Trade name / designation: Selenotest ELISA Stop Solution
   Product No.: STE13
   Other means of identification: SOLN STOP

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Relevant identified uses
   Component of the in-vitro test Selenotest ELISA; for professional use according to the instructions
   for use only

1.3 Details of the supplier of the safety data sheet
   Manufacture / Supplier
   InVivo BioTech Services GmbH
   Street / P.O. Box
   Neuendorfstr. 24 a
   Country Code / Postal Code / City
   DE – 16761 Hennigsdorf
   Telephone / E-mail
   +49 (0)3302 883 769 / info@invivo.de
   Department responsible for information / Telephone / E-mail
   InVivo BioTech Services GmbH / +49 (0)30 6120 1765 / selenotest@ici-diagnostics.com

1.4 Emergency Telephone Number
   Germany, Berlin: +49 228 19240 (Poison Centre Bonn, 24 h)
   Austria, Vienna: +43 1 406 43 43 (Poison Control Center)
   Switzerland, Zurich: +41 44 251 51 51 (Tox Info Suisse, Emergency hotline: Tel. 145, 24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification according to regulation (EC) No. 1272/2008 [CLP]
   Skin Irrit. 2; H315
   Eye Irrit. 2; H319

2.2 Label elements
   Labelling according to Regulation (EC) No. 1272/2008 [CLP]
   Hazard pictograms:
   !
   Signal words: Warning
   Hazard components for labelling
   Contain: Sulphuric acid
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Hazard Statements:
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

Precautionary Statements:
- P264.1 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 IF ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing.
- P362 If skin irritation occurs: Get medical advice/attention.
- P363 If eye irritation persists: Get medical advice/attention.
- P337+P313 If skin irritation occurs: Get medical advice/attention.
- P363 Take off contaminated clothing.

Other labelling
None.

Additional information
In accordance with Regulation (EC) No 1272/2008 a chemical hazard labelling of the primary and secondary packing of the product is not required (total volume < 125 mL).

2.3 Other hazards
Not known.

SECTION 3: Composition / information on ingredients

3.1 Substances
It is a mixture of substances.

3.2 Mixtures
Substance name: Sulphuric acid
EC No.: 231-639-5; CAS No.: 7664-93-9; Index No.: 016-020-00-8 
Concentration: 5.9 % [weight]
Classification according to Regulation (EC) No. 1272/2008 [CLP]: Skin Corr. 1A; H314 Metals Corr. 1; H290

Full text of H- and EUH-statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information
Show this safety data sheet to the doctor in attendance. Remove contaminated, saturated clothing immediately.

Following inhalation
Remove victim to fresh air, if necessary seek medical advice.

Following skin contact
Wash skin with water thoroughly. Take off contaminated clothing.
Following eye contact
Promptly wash eyes with water for at least 15 minutes, seek medical advice.

Following ingestion
If accidentally swallowed give immediately large quantities of water to drink. Avoid vomiting. Seek medical advice, if necessary.

4.2 Most important symptoms and effects, both acute and delayed
Irritations.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Non-combustible product. Suit firefighting to surroundings.

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products: Sulphur oxides.

5.3 Advice for firefighters
Do not stay in dangerous zone without self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Do not breathe vapours, aerosols. Avoid contact with product. Use personal protective equipment.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and material for containment and cleaning up
Take up with liquid-absorbent material. Forward for disposal as hazardous waste. Clean up affected area.

6.4 Reference to other sections
Safe handling: see section 7, Personal protection equipment: see section 8, Disposal: see section 13

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Protective measures
Advices on safe handling
Open and handle container with care.

Measures to prevent fire
No special measures required.

Advices on general occupational hygiene
When using do not eat, drink, smoke, sniff. Thorough skin-cleansing after handling the product. Immediately remove any contaminated clothing, shoes or stockings. Avoid contact with skin, eyes and clothes.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Store at room temperature or below. Do not expose to UV-radiation/sunlight.

Requirements for storage rooms and vessels
Keep/store only in original container.

Further information on storage conditions
Store tightly closed.

7.3 Specific end uses
Recommendations
Observe instructions for use.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters
Occupational exposure limits

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS No.</th>
<th>Occupational exposure limit value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Eight hours</td>
<td>Short term</td>
</tr>
<tr>
<td>Sulphuric acid</td>
<td>7664-93-9</td>
<td>0.1 mg/m³ inhalable aerosol</td>
<td>0.1 mg/m³ inhalable aerosol [1]</td>
</tr>
<tr>
<td>DE (AGS, DFG)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU (OEL)</td>
<td></td>
<td>0.05 mg/m³ thoracic fraction</td>
<td>3 mg/m³ [1]</td>
</tr>
<tr>
<td>AU</td>
<td></td>
<td>1 mg/m³</td>
<td></td>
</tr>
<tr>
<td>JP</td>
<td></td>
<td>undetermined</td>
<td></td>
</tr>
<tr>
<td>USA (OSHA, NIOSH)</td>
<td>7664-93-9</td>
<td>1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure controls
Personal protection equipment
Eye/face protection
Eye glasses.

Skin protection
Hand protection
Disposable gloves.

Body protection
Lab coat.
Respiratory protection
Avoid aerosol or mist formation.

Environmental exposure controls
See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance:
  Physical state: Liquid
  Colour: Colourless
  Molecular weight: Not applicable
  Molecular formula: Not applicable
  Odour: Odourless
  Odour threshold: Not applicable
  pH: Acidic
  Melting point/freezing point: Not determined
  Initial boiling point and boiling range: Not determined
  Flash point: Not applicable
  Evaporation rate: Not determined
  Flammability: Not applicable
  Upper/lower flammability or explosive limits: Not applicable
  Vapour pressure: Not determined
  Vapour density: Not determined
  Relative density: Not determined
  Solubility(ies): Complete miscible with water.
  Partition coefficient: n-octanol/water Not determined
  Auto-ignition temperature: Not applicable
  Decomposition temperature: Not applicable
  Viscosity: Not determined
  Explosive properties: Not applicable
  Oxidising properties: May be oxidising with increased temperature.

9.2 Other information
No relevant.

SECTION 10: Stability and Reactivity

10.1 Reactivity
May cause formation of hydrogen by contact with amphoteric metals (e.g. aluminium, lead, zinc).

10.2 Chemical Stability
The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.
10.4 Conditions to avoid
No information available.

10.5 Incompatible materials
Materials to avoid:
The product develops hydrogen in an aqueous solution in contact with metals.

10.6 Hazardous decomposition products
In case of fire see section 05. No further information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
No toxicological data available.

Skin corrosion/irritation
The mixture causes skin irritation. Classification based on concentration limits.

Serious eye damage/irritation
The mixture causes serious eye irritation. Classification based on concentration limits.

Respiratory or skin sensitisation
The mixture is not classified for the particular hazard class. Classification criteria are not met.

Repeated dose toxicity (subacute, subchronic, chronic)
The mixture is not classified for the particular hazard class. Classification criteria are not met.

Specific target organ toxicity (single exposure)
The mixture is not classified for the particular hazard class. Classification criteria are not met.

Specific target organ toxicity (repeated exposure)
The mixture is not classified for the particular hazard class. Classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
The mixture is not classified for the particular hazard class. Classification criteria are not met.

Aspiration hazard
The mixture is not classified for the particular hazard class. Classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics
also: Toxicokinetics, metabolism and distribution
No toxicological data available.

In case of ingestion
No data available. May erode the teeth.

In case of skin contact
No data available. May irritate the skin.
Experiences made in practice: 10% Sulphuric acid caused minor irritation to the skin of volunteers (applied to the belly or shoulder) [2].

In case of inhalation
No data available. May irritate the airways.

In case of eye contact
No data available. May irritate the eyes.

Other adverse effects
No data available.
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SECTION 12: Ecological information

12.1 Toxicity
Sulphuric acid; CAS No.: 7664-93-9

<table>
<thead>
<tr>
<th>Aquatic toxicity</th>
<th>Effect dose</th>
<th>Exposure time</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute crustaceans</td>
<td>LC₅₀ = 42.5 mg/L</td>
<td>48 h</td>
<td>Brown Shrimp</td>
<td>[2]</td>
</tr>
<tr>
<td>toxicity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
Data lacking.

12.3 Bioaccumulative potential
Data lacking.

12.4 Mobility in soil
Data lacking.

12.5 Results of PBT and vPvB assessment
Data lacking.

12.6 Other adverse effects
Harmful effects due to pH shift.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product / Packaging disposal

Waste codes / waste designations according to EWC / AVV
- 15 01 05 (cleaned product plastic package)
- 18 01 06 (contaminated plastic package and product residues as non-hazardous chemical waste)

Properties of waste which render it hazardous
HP4, irritant

Waste treatment options
Appropriate disposal / Product
The product should be disposed in compliance with respective national disposal regulations.

Appropriate disposal / Package
Remove residues and clean. Dispose packaging via local recycling or waste disposal routes.

Other disposal recommendations
Dispose of waste according to applicable legislation.
SECTION 14:  Transport information

14.1 UN number
UN2796

14.2 UN proper shipping name
ADR/RID
SULPHURIC ACID with not more than 51% acid

IMDG-Code / ICAO-TI / IATA-DGR
SULPHURIC ACID with not more than 51% acid

14.3 Transport hazard class(es)
8 (corrosive substances)

14.4 Packing group
II (medium danger)

14.5 Environmental hazards
Label ENVIRONMENTALLY HAZARDOUS
ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: ☐ yes / ☒ no
Marine Pollutant: ☐ yes / ☒ no

14.6 Special precautions for user
See sections 6 – 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Pollution category: (X, Y or Z): Not classified.
Ship type (1, 2 or 3): Not classified.

SECTION 15:  Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU legislation
No further relevant regulations identified.

National regulations
Please comply with the respective national regulations on working with hazardous chemical substances.

Additional information
None.

15.2 Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.
SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text) referred in sections 2 and 3

- **Skin Irrit. 2; H315**  
  Skin Irritating Category 2; Causes skin irritation.

- **Eye Irrit. 2; H319**  
  Eye Irritating Category 2; Causes serious eye irritation.

- **Skin Corr. 1A; H314**  
  Skin Corrosive Category 1A; Causes severe skin burns and eye damage.

- **Metals Corr. 1; H290**  
  Metals Corrosive Category 1; May be corrosive to metals.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

- Regulation (EC) No 1272/2008, Appendix VI, Part 3, Table 3.1, concentration limits

Training advice

No special advice.

Key literature references and sources for data

1. GESTIS-International limit values for chemical agents, Occupational Exposure Limits (OELs)
2. GESTIS-database on hazardous substances, Information system on hazardous substances of the German Social Accident Insurance. [http://www.dguv.de/ifa/gestis-database](http://www.dguv.de/ifa/gestis-database)
3. International chemical safety card, Sulfuric Acid, ICSC: 0362, February 2000, Validated

Abbreviations and acronyms

- **ADR** European Agreement concerning the International Carriage of Dangerous Goods by Road
- **CLP** Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- **CAS#** Chemical Abstracts Service number
- **EC** European Community
- **EU** European Union
- **EWC** European Waste Catalogue
- **GESTIS** Information system on hazardous substances of the German Social Accident Insurance
- **GHS** Globally Harmonized System
- **IATA** International Air Transport Association
- **LC50** Lethal Concentration to 50 % of a test population

Indication of changes


Additional information

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our product is responsible for ensuring that, where applicable, existing laws and guidelines are observed.