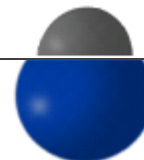


SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

InVivo BioTech Services GmbH
a BRUKER company



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

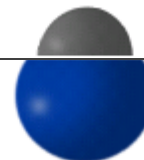
Hazard components for labelling

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 skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing.
P363 Wash contaminated clothing before reuse.

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.

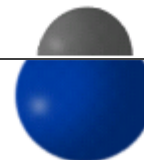
Following skin contact

Wash skin with water thoroughly. Take off contaminated clothing.

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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

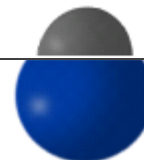
7.1 Precautions for safe handling

Protective measures

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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

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

Limit value type (Country of origin)	Substance name	CAS No.	Occupational exposure limit value		Source
			Eight hours	Short term	
DE (AGS, DFG)	Sulphuric acid	7664-93-9	0.1 mg/m ³ inhalable aerosol	0.1 mg/m ³ inhalable aerosol	[1]
EU (OEL)	Sulphuric acid	7664-93-9	0.05 mg/m ³ thoracic fraction		[1]
AU	Sulphuric acid	7664-93-9	1 mg/m ³	3 mg/m ³	[1]
JP	Sulphuric acid	7664-93-9	undetermined		[1]
USA (OSHA, NIOSH)	Sulphuric acid	7664-93-9	1 mg/m ³		[1]

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye glasses.

Skin protection

Hand protection

Disposable gloves.

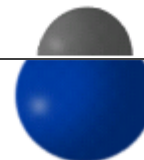
Body protection

Lab coat.

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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.

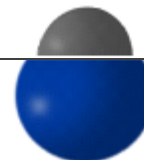
10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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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.

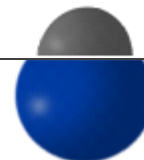
Other adverse effects

No data available.

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SECTION 12: Ecological information

12.1 Toxicity

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

Aquatic toxicity	Effect dose	Exposure time	Species	Source
Acute crustaceans toxicity	LC ₅₀ = 42.5 mg/L	48 h	Brown Shrimp	[2]

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.

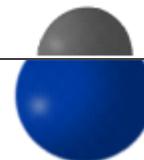
Other disposal recommendations

Dispose of waste according to applicable legislation.

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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.

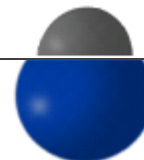
15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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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>
- [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

Complete revision according to Regulation (EC) No 1907/2006, Article 31 (Requirements for safety data sheets) and Annex II (Guide to the compilation of safety data sheets) in the version of the Annex of the Regulation (EC) No 2015/830 from 28. May 2015.

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.

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<http://www.ici-diagnostics.com/products/selenotest-elisa/>