

Date of issue: 20.03.2009

n.ap. = not applicable

n.av. = not available

Version: 0020

SI Analytics

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation

Trade name **Reinigungslösung für Einstabmeßketten und Bezugselektroden**Product number **scho0037**Substance code **L 510, L 5102, L 5104**

1.2 Use of the substance/preparation

The product is used as a laboratory chemical.

1.3 Company/undertaking identification

Address: SI Analytics GmbH

Geb. G12

Hattenbergstrasse 10

D-55122 Mainz

Information: Telephone: int+49-(0)6131-66-5051 or -5116

Fax: int+49-(0)6131-66-5001

e-mail-address of the competent person responsible for this Safety Data Sheet:

urban-finking.gefstoff@t-online.de

1.4 Emergency telephone

Beratungsstelle für Vergiftungserscheinungen und Embryonaltoxikologie, Berlin

Telephone: int+49-(0)30 - 19240

2. Hazards identification

2.1 Hazards identification

The product is not dangerous within the meaning of the current version of Directive 1999/45/EC.

2.2 Critical hazards to man

Irritating effects on the eyes, skin and mucous membrane cannot be ruled out.

May produce an allergic reaction.

2.3 Critical hazards to the environment

None.

3. Composition/information on ingredients

This product is a preparation. It is an aqueous solution of hydrochloric acid and Pepsin A.

3.1 Substances presenting a health / environmental hazard within the meaning of Directive 67/548/EEC

CAS number	EC number	Identification	m %	Symbols	R phrases
n.ap.	n.ap.	n.ap.	n.ap.	n.ap.	n.ap.

For further details see heading 15.

Full text of the R phrases see heading 16.2.

3.2 Substances for which there are Community workplace exposure limits, which are not already included under heading 3.1 (see also heading 8.)

No substances.

3.3 Additional information

The product contains < 0.5% hydrochloric acid.

4. First aid measures

4.1 General information

Remove soiled or soaked clothing immediately.

4.2 after inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

4.3 after contact with skin

In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

4.4 after contact with eyes

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

4.5 after ingestion

Call physician immediately.

Trade name: **Reinigungslösung für Einstabmeßketten und Bezugselektroden**
 Company/Undertaking: **SI Analytics GmbH**
Geb. G12, Hattenbergstrasse 10, D-55122 Mainz
 Product number: **scho0037**

Date of issue: 20.03.2009

4.6 Hints for the physician**Symptoms**

n.av.

Hazards

Risk of irritating effects on the eyes, skin and mucous membrane cannot be ruled out.

Risk of allergic reaction.

Treatment

Treat symptomatically.

4.7 First aid equipment

In the immediate working surroundings emergency shower and eye wash must be installed.

Label their location conspicuously.

4.8 Additional remarks

None.

5. Fire-fighting measures**5.1 Suitable extinguishing media**

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Extinguishing media which must not be used for safety reasons

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire the following can be released: hydrogen chloride, nitrogen oxides, carbon monoxide, carbon dioxide.

5.4 Special protective equipment for fire-fighters

Use self-contained breathing apparatus.

5.5 Further information

Do not inhale explosion and/or combustion gases. Cool endangered containers with water spray jet.

Contaminated firefighting water must be disposed of in accordance with the local regulations (firefighting water reacts acidic).

6. Accidental release measures**6.1 Personal precautions** (see also heading 8., Personal protective equipment)

Avoid contact with eyes and skin. Do not inhale vapours.

Ensure adequate ventilation. Use personal protective clothing.

6.2 Environmental precautions (see also heading 13., Disposal considerations)

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods for cleaning up

Pick up with absorbent material (e.g. Chemisorb) and dispose of in accordance with the regulations.

6.4 Additional information

None.

7. Handling and storage (National measures see headings 15. and 16.)**7.1 Handling****7.1.1 Advice on safe handling**

Open and handle container with care.

Use acid-resistant equipment.

7.1.2 Advice on protection against fire and explosion

None.

7.2 Storage**7.2.1 Requirements for storage rooms and vessels**

Keep container tightly closed.

7.2.2 Advice on storage compatibility

Do not store together alkalies.

7.2.3 Further information on storage conditions

Recommended storage temperature: 15 - 25 °C.

Provide acid-resistant floor.

7.2.4 Storage class (for Germany only)

LGK 12 (Non-flammable liquids) in accordance with the VCI Guideline for the mixed storage of chemicals.

7.3 Specific use(s)

No information about specific uses available.

Trade name: **Reinigungslösung für Einstabmeßketten und Bezugselektroden**
 Company/Undertaking: **SI Analytics GmbH**
Geb. G12, Hattenbergstrasse 10, D-55122 Mainz
 Product number: **scho0037**

Date of issue: 20.03.2009

8. Exposure controls/Personal protection**8.1 Exposure limit values**

CAS number	Identification	Limit value	Remarks
n.ap.	n.ap.	n.a.p.	n.ap.

8.2 Exposure controls

See also heading 7.1.

Additional advice on system design

No additional advice.

8.2.1 Occupational exposure controls**Personal protective equipment****Respiratory protection**

If ventilation is insufficient, use a respiratory protection apparatus.

Hand protection

Protective gloves (acid-resistant).

Suitable: nitrile rubber (0.35 mm; breakthrough time ≥ 8 h).**Eye protection**

Tightly fitting safety glasses.

Body protection

Protective clothing (acid-resistant).

General protective measures and hygiene measures

Do not inhale vapours. Avoid contact with eyes and skin.

At work do not eat, drink, smoke or take drugs.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work. Use barrier skin cream.

Set out skin protection guidelines.

In the immediate working surroundings emergency shower and eye wash must be installed.

Label their location conspicuously.

8.2.2 Environmental exposure controls

See heading 6.

9. Physical and chemical properties**9.1 General information****Physical state:** liquid**Colour:** colourless**Odour:** odourless**9.2 Important health, safety and environmental information**pH (as supplied) (25°C): 1.0 $\pm$ 0.1

(of an aqueous solution): n.av.

Boiling point / boiling range (°C): +100

Melting point (°C): 0

Thermal decomposition: n.av.

Flash point (°C), c.c.: n.av.

Ignition temperature (°C): n.ap.

Lower explosion limit: n.ap.

Upper explosion limit: n.ap.

Vapour pressure: approx. 22 mbar (25°C)

Relative density / bulk density: 1 g/cm³

Solubility in water: soluble

Viscosity (25°C): approx. 1.0 mm²/s**9.3 Other information**

None

10. Stability and reactivity**10.1 Conditions to avoid**

No particular conditions known.

10.2 Materials to avoid

Reactions with base metals, with evolution of hydrogen.

Evolution of chlorine under influence of strong oxidising agents.

Reactions with concentrated sulphuric acid, sulfides, lithium silicide and methyl vinyl ether.

10.3 Hazardous decomposition products

Hazardous decomposition products: chlorine, hydrogen chloride, hydrogen, nitrogen oxides, carbon monoxide, carbon dioxide.

10.4 Additional information

None.

Trade name: **Reinigungslösung für Einstabmeßketten und Bezugselektroden**
 Company/Undertaking: **SI Analytics GmbH**
Geb. G12, Hattenbergstrasse 10, D-55122 Mainz
 Product number: **scho0037**

Date of issue: 20.03.2009

11. Toxicological information**11.1 Toxicokinetics, metabolism and distribution**

No data are available for the product.

11.2 Acute effects (acute toxicity, irritation and corrosivity)

LD50 rat, oral	(mg/kg)	n.av.
LD50 rabbit, dermal	(mg/kg)	n.av.
LC50 rat, inhalation	(mg/l/4h)	n.av.
Irritant effect on skin		n.av.
Irritant effect on eyes		n.av.

11.3 Sensitisation

The product contains Pepsin A. May produce an allergic reaction.

11.4 Repeated dose (sub-acute, sub-chronic, chronic)

No data are available for the product.

11.5 CMR effects (carcinogenicity, mutagenicity, toxicity for the reproduction)

Carcinogenicity	n.av.
Mutagenicity	n.av.
Toxicity for the reproduction	n.av.

11.6 Comprehensive evaluation of the CMR properties of substances subject to registration

No data available.

11.7 Experiences made in practice

Irritating effects on the skin, eyes and mucous membrane possible.

11.8 General remarks

The product has not been tested.

12. Ecological information**12.1 Ecotoxicity****Aquatic toxicity**

LC50	(fish)	n.av.
EC50	(daphnia)	n.av.
IC50	(algae)	n.av.

Behaviour in sewage works:

The product is an acid.

The product needs to apply neutralising agents before draining to wastewater treatment plants.

12.2 Mobility

The product has not been tested.

12.3 Persistence and degradability

The product has not been tested.

12.4 Bioaccumulative potential

The product has not been tested.

12.5 Results of PBT assessment

No data available.

12.6 Other adverse effects

Ozone depletion potential	n.av.
Photochemical ozone creation potential	n.av.
Global warming potential	n.av.
AOX-hint	Not to apply.

12.7 Further information

Chemical oxygen demand (COD)	n.av.
Biochemical oxygen demand (BOD)	n.av.

Contains according to the formulation following compounds of directives 2006/11/EC and 80/68/EEC:

None.

Trade name: **Reinigungslösung für Einstabmeßketten und Bezugselektroden**
 Company/Undertaking: **SI Analytics GmbH**
Geb. G12, Hattenbergstrasse 10, D-55122 Mainz
 Product number: **scho0037**

Date of issue: 20.03.2009

13. Disposal considerations**13.1 Product / unused product**

Waste disposal corresponding to European Waste Catalogue.

Wastes must be classified with respect to their origin and depending on different processing steps. The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

Waste type

Wastes not otherwise specified in the list

Waste notation

Gases in pressure containers and discarded chemicals

EC waste code

16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

Disposal operations

D 9 Physico-chemical treatment

Recovery operations

R 6 Regeneration of acids or bases

13.2 Contaminated packaging

Recommendation

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
 Packaging that cannot be cleaned should be disposed off as product waste.

Recommended cleansing agent

Water

14. Transport information**14.1 Land transport ADR / RID**

No dangerous good in accordance with the regulations.

14.2 Marine transport / IMDG-Code

No dangerous good in accordance with the regulations.

14.3 Air transport ICAO / IATA-DGR

No dangerous good in accordance with the regulation.

15. Regulatory information**15.1 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for a substance in the product.

15.2 Labelling in accordance with Directive EC

Symbol(s) of danger: n.ap.

Indication(s) of danger: n.ap.

Hazardous component(s) to be indicated on label: n.ap.

R phrases: n.ap.

S phrases: n.ap.

Preparations not classified as sensitising but containing at least one sensitising substance (the packaging must bear the inscription):

"Contains Pepsin A. May produce an allergic reaction."

Remarks: The normal safety precautions for handling of chemicals must be observed.

15.3 Further Community legislation

None.

15.4 National measures (for Germany only)

Indications on restriction of occupation: n.ap.

Major-accident Regulation: n.ap.

Fire and explosion hazards: n.ap.

Regulation on clean air (TA Luft): n.ap.

Water hazard class: not hazardous to water in accordance with VwVwS

German Ordinance on Hazardous Substances

(in accordance with Directive 98/24/EC):

Article 7 must be observed

Articles 8, 9, 14 and 15 must be observed as required

Trade name: **Reinigungslösung für Einstabmeßketten und Bezugselektroden**
Company/Undertaking: **SI Analytics GmbH**
Geb. G12, Hattenbergstrasse 10, D-55122 Mainz
Product number: **scho0037**

Date of issue: 20.03.2009

16. Other information**16.1 Keeping (restrictions)**

n.ap.

Distribution

for industry consumer, for the general public

16.2 Full text of the R phrases referred to under heading 3 of the Safety Data Sheet

Not to apply.

16.3 Technical contact point**SI Analytics GmbH, Herr Dr. M. Lange****Telephone: int+49-(0)6131-66-5051****SI Analytics GmbH, Herr H. Becker****Telephone: int+49-(0)6131-66-5116****Version 0020: replacement of version 0019 dated 31.01.2009****Revised headings: page headers, 1.3, 16.3 (change of company identification)**

- 16.4** The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Compiled by:

Dr. Michael Urban**Fachberatung Gefahrstoff Gefahrgut**

Vogelbeerweg 3

D-26180 Rastede-Ipwege

Tel.: int+49-(0)4402-695620

Fax: int+49-(0)4402-695621