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

1.1. Product identifier

UriSet 24 (hydrochloric acid)

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

Use of the substance/mixture

Complete set for standardized and patient-friendly 24 hour urine collection.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name: SARSTEDT AG & Co. KG
Street: Sarstedtstraße 1
Place: D-51588 Nümbrecht
Post-office box: D-51582 Nümbrecht
Telephone: +49 (0)2293 / 305 - 0
Fax: +49 (0)2293 / 305 - 2470
Email: info@sarstedt.com
Contact person: Dr. Dagmar Flach

Supplier

Company name: SARSTEDT Ltd.
Street: 68 Boston Road
Place: GB-LE4 1AW Leicester - Beaumont Leys
Telephone: +44 (0) 116 235 9023
Fax: +44 (0) 116 236 6099
Email: info@sarstedt.co.uk

1.4. Emergency telephone number:

Call NHS 111 or a doctor.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling
Hydrochloric acid

Signal word: Warning
Pictograms:

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P321 Specific treatment (see remarks on this label).
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to waste disposal site according to legal regulations.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

UriSet 24 with dropper bottle containing 9 ml of 20 % hydrochloric acid solution.

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC No</td>
<td>Index No</td>
</tr>
<tr>
<td></td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydrochloric acid</td>
<td>20 - &lt; 25 %</td>
</tr>
<tr>
<td>231-595-7</td>
<td>017-002-01-X</td>
<td></td>
</tr>
</tbody>
</table>

Skin Corr. 1B, STOT SE 3; H314 H335

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.
After inhalation
Provide fresh air. Medical treatment necessary.

After contact with skin
After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion
Rinse mouth immediately and drink plenty of water. Consult physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available.

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
Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture
Non-flammable. Contact with metals may form hydrogen gas (danger of explosion!). Ambient fire may liberate hazardous vapours. In case of fire: Hydrogen chloride gas may be formed.

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information
Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or drains. Due to the quantity (9 ml) not harmful to the environment.

6.3. Methods and material for containment and cleaning up
Wear suitable protective equipment when cleaning. Wear protective gloves. Pay attention to broken pieces. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Hydrochloric acid attacks tile joints and even the tile itself depending on the tile material and glazing. Pour plenty of water and then clean as described above.

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
Safety Data Sheet

according to Regulation (EC) No 1907/2006

UriSet 24 (hydrochloric acid)

Revision date: 15.03.2018
Art. no. 77.578
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Advice on safe handling
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Observe instructions for use.

Advice on protection against fire and explosion
No special fire protection measures are necessary.

Further information on handling
The usual precautions are to be adhered to when handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed. Store at room temperature.

7.3. Specific end use(s)
Complete set for standardized and patient-friendly 24 hour urine collection.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>7647-01-0</td>
<td>Hydrogen chloride (gas and aerosol mists)</td>
<td>1</td>
<td>2</td>
<td>5</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
<td>8</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective and hygiene measures
Do not breathe gas/fumes/vapour/spray.

Eye/face protection
Avoid contact with skin, eyes and clothes. Wear eye protection.

Hand protection
Avoid contact with substance. Wear protective gloves.

Skin protection
Avoid contact with substance. Remove contaminated, saturated clothing immediately.

Respiratory protection
Ventilate the area and avoid breathing vapors.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: stinging
pH-Value (at 20 °C): <1,00

Changes in the physical state
Melting point: not determined
Initial boiling point and boiling range: not determined
Flash point: not determined

Flammability
  Solid: not applicable
  Gas: not applicable

Explosive properties
  No data available.
  Lower explosion limits: not determined
  Upper explosion limits: not determined

Auto-ignition temperature
  Solid: not applicable
  Gas: not applicable
  Decomposition temperature: not determined

Oxidizing properties
  Not oxidizing.
  Vapour pressure: not determined
  Density: 1,10 g/cm³
  Water solubility: completely miscible

Solubility in other solvents
  not determined
  Partition coefficient: not determined
  Vapour density: not determined
  Evaporation rate: not determined

9.2. Other information
  Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity
  Possibility of hazardous reactions.

10.2. Chemical stability
  The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
  Exothermic reaction with: Base, Peroxide, Oxidising agent, aluminium, amines, carbides, hydrides, fluorine, alkali metals, metals, potassium permanganate, strong lyes, salts of halogen oxygen acids, concentrated oil of vitriol, semi-metal oxides, semi-metal hydrogen compounds, aldehydes, sulphides, lithium silicide, vinyl methyl ether. The generally known reaction partners of water.

10.4. Conditions to avoid
  Heating.

10.5. Incompatible materials
  Keep away from: Base, Peroxide, Oxidizing agents. Metals and metallic alloys.

10.6. Hazardous decomposition products
  Contact with metals may form hydrogen gas (danger of explosion!). Ambient fire may liberate hazardous vapours. In case of fire: Hydrogen chloride gas may be formed.

Further information
  Hydrochloric acid attacks tile joints and even the tile itself depending on the tile material and glazing. Pour plenty of water and then clean as described above.
Further dangerous properties cannot be excluded.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Based on available data, the classification criteria are not met.

Irritation and corrosivity
Causes skin irritation.
Causes serious eye irritation.

Sensitising effects
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.

STOT-single exposure
May cause respiratory irritation. (Hydrochloric acid)

STOT-repeated exposure
Based on available data, the classification criteria are not met.

Aspiration hazard
Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal
No data available.

Additional information on tests
This substance is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Practical experience

Observations relevant to classification
No data available.

Other observations
No data available.

Further information
Further dangerous properties cannot be excluded.
The usual precautions are to be adhered to when handling chemicals.

SECTION 12: Ecological information

12.1. Toxicity
The product is not: Ecotoxic.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aquatic toxicity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydrochloric acid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>862 mg/l</td>
<td>96 h</td>
<td>Leuciscus idus</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
No data available.
12.6. Other adverse effects

No data available.

Further information
Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. After filling the 30 ml tube or the Urine Monovette® empty the remaining urine into the toilet and discard the emptied glass bottle, the collection cup and the urine container into the domestic garbage.

Contaminated packaging
Wash with plenty of water. Completely emptied packages can be recycled. Give the unused glass bottle with 20% hydrochloric acid to a pharmacy or another collection point (e.g. mobile collecting station for harmful substances).

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1789
14.2. UN proper shipping name: HYDROCHLORIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8

Classification code: C1
Special Provisions: 520
Limited quantity: 1 L
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Other applicable information (land transport)
Limited quantity: E2

Inland waterways transport (ADN)

14.1. UN number: UN 1789
14.2. UN proper shipping name: HYDROCHLORIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8

Classification code: C1
Special Provisions: 520
Limited quantity: 1 L

Other applicable information (inland waterways transport)
Limited quantity: E2
Marine transport (IMDG)

14.1. UN number: UN 1789
14.2. UN proper shipping name: HYDROCHLORIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8

Special Provisions: -
Limited quantity: 1 L
EmS: F-A, S-B

Other applicable information (marine transport)
Limited quantity: E2

Air transport (ICAO-TII/IATA-DGR)

14.1. UN number: UN 1789
14.2. UN proper shipping name: HYDROCHLORIC ACID
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8

Special Provisions: A3 A803
Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)
Passenger-LQ: Y841
Limited quantity: E1

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
Warning: strongly corrosive.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not applicable

SECTION 15: Regulatory information

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

EU regulatory information
Restrictions on use (REACH, annex XVII):
Entry 3: Hydrochloric acid

National regulatory information
Employment restrictions: Observe restrictions to employment for juvenils according to the ‘juvenile work protection guideline’ (94/33/EC).
15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

General revision.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2; H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 3; H335</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

H314  Causes severe skin burns and eye damage.
H315  Causes skin irritation.
H319  Causes serious eye irritation.
H335  May cause respiratory irritation.

Further Information

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)