

**UriSet 24 (acetic acid)**

Revision date: 16.04.2024

Art. no. 77.584.xxx

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

**1.1. Product identifier**

UriSet 24 (acetic acid)

Substance name: acetic acid 96 %  
CAS No: 64-19-7  
Index No: 607-002-00-6  
EC No: 200-580-7

**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.

**Uses advised against**

Observe the instructions for use and handling.

**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: 1220  
D-51582 Nümbrecht  
Telephone: +49 (0)2293 / 305 - 0  
E-mail: info@sarstedt.com  
Contact person: Dr. Daniel Will  
Jochen Hoffmann  
E-mail: sicherheitsdatenblatt@sarstedt.com  
Internet: www.sarstedt.com  
Responsible Department: R & D Center  
Telefax: +49 (0)2293 / 305 - 2470  
Telephone: +49 (0)2293 / 305 - 4500

**Supplier**

Company name: SARSTEDT Ltd.  
Street: Optimus Way, Optimus Point  
Place: GB-LE3 8JR Leicester  
Telephone: +44 (0) 116 235 9023  
E-mail: info.gb@sarstedt.com  
Internet: www.sarstedt.com  
Telefax: +44 (0) 116 236 6099

**1.4. Emergency telephone number:**

Call NHS 111 or a doctor (public). NPIS: 0344 892 0111 (healthcare professionals).

**Further Information**

All information in this safety data sheet refers to the unused product and its preparation.

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**GB CLP Regulation**

Flam. Liq. 3; H226  
Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**

**GB CLP Regulation**

**Signal word:** Danger

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**Pictograms:**



**Hazard statements**

- H226 Flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.

**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P363 Wash contaminated clothing before reuse.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see Precautionary statements on this label).  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P370+P378 In case of fire: Use carbon dioxide (CO<sub>2</sub>), foam, extinguishing powder, water to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container to waste disposal site according to legal regulations.

**Additional advice on labelling**

none

**Labelling of packages where the contents do not exceed 125 ml**

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H314

**Precautionary statements**

P101-P102-P103-P260-P264-P280-P301+P330+P331-P303+P361+P353-P363-P304+P340-P310-P321-P305+P351+P338-P310-P405-P501

**2.3. Other hazards**

No information available.

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**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

**Chemical characterization**

UriSet 24 with dropper bottle containing 9 ml of 96 % acetic acid solution.

**Relevant ingredients**

| CAS No  | Chemical name                          |              |          | Quantity |
|---------|--|--------------|----------|----------|
|         | EC No                                  | Index No     | REACH No |          |
|         | Classification (GB CLP Regulation)     |              |          |          |
| 64-19-7 | acetic acid 96 %                       |              |          | 100 %    |
|         | 200-580-7                              | 607-002-00-6 |          |          |
|         | Flam. Liq. 3, Skin Corr. 1A; H226 H314 |              |          |          |

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

**Specific Conc. Limits, M-factors and ATE**

| CAS No  | EC No  | Chemical name    | Quantity |
|---------|--|------------------|----------|
|         | Specific Conc. Limits, M-factors and ATE   |                  |          |
| 64-19-7 | 200-580-7  | acetic acid 96 % | 100 %    |
|         | oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90<br>Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 |                  |          |

**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 plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

**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**

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

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**5.2. Special hazards arising from the substance or mixture**

Flammable. Vapours can form explosive mixtures with air.

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. 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**

**General advice**

Remove all sources of ignition. 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 uncontrolled discharge of product into the environment. Explosion risk.

**6.3. Methods and material for containment and cleaning up**

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Wear protective gloves.

**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**

**Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Observe the instructions for use and handling.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

**7.3. Specific end use(s)**

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

**SECTION 8: Exposure controls/personal protection**

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**8.1. Control parameters**

**Exposure limits (EH40)**

| CAS No  | Substance   | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-------------|-----|-------------------|-----------|---------------|--------|
| 64-19-7 | Acetic acid | 10  | 25                |           | TWA (8 h)     | WEL    |
|         |             | 20  | 50                |           | STEL (15 min) | WEL    |

**8.2. Exposure controls**



**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Suitable eye protection: goggles. Avoid contact with skin, eyes and clothes. Wear eye protection.

**Hand protection**

Wear protective gloves. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing. Avoid contact with substance. Remove contaminated, saturated clothing immediately.

**Respiratory protection**

In case of inadequate ventilation wear 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

|   | Test method             |
|---|-------------------------|
| Melting point/freezing point:                             | 17 °C                   |
| Boiling point or initial boiling point and boiling range: | 118 °C                  |
| Flammability:   | No data available       |
| Lower explosion limits:                                   | 4 vol. %                |
| Upper explosion limits:                                   | 17 vol. %               |
| Flash point:  | 39 °C                   |
| Auto-ignition temperature:                                | 485 °C                  |
| Decomposition temperature:                                | No data available       |
| pH-Value (at 20 °C):                                      | 2,5 50 g/l              |
| Viscosity / kinematic:<br>(at 20 °C)                      | 1,17 mm <sup>2</sup> /s |
| Water solubility:   | completely miscible     |

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**Solubility in other solvents**

There are no data available on the mixture itself.

Partition coefficient n-octanol/water:

No data available

Vapour pressure:

16 hPa

(at 20 °C)

Density (at 20 °C):

1,05 g/cm<sup>3</sup>

Relative vapour density:

No data available

Particle characteristics:

No data available

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties

There are no data available on the mixture itself.

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

There are no data available on the mixture itself.

**Other safety characteristics**

Evaporation rate:

No data available

Solvent content:

96,00 %

Solid content:

No data available

Viscosity / dynamic:

1,22 mPa·s

(at 20 °C)

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Flammable.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Heating.

**10.5. Incompatible materials**

Strong oxidizing agents. May be corrosive to metals.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in GB CLP Regulation**

**Acute toxicity**

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

| CAS No  | Chemical name    |               |         |        |        |
|---------|------------------|---------------|---------|--------|--------|
|         | Exposure route   | Dose          | Species | Source | Method |
| 64-19-7 | acetic acid 96 % |               |         |        |        |
|         | oral             | LD50<br>mg/kg | 3310    | Rat    | GESTIS |

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**Irritation and corrosivity**

Skin corrosion/irritation: Causes severe skin burns and eye damage.  
Serious eye damage/eye irritation: Causes serious eye damage.  
Causes severe burns. Skin corrosion/irritation. Serious eye damage/eye irritation.

**Sensitising effects**

Based on available data, the classification criteria are not met.  
No data available.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
No data available.

**STOT-single exposure**

Based on available data, the classification criteria are not met.  
No data available.

**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.  
No data available.

**Specific effects in experiment on an animal**

No data available.

**Additional information on tests**

Classification according to Regulation (EC) No 1272/2008 [CLP]: Health hazard properties The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**Practical experience**

No data available.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No data available

**Other information**

Severe cauterization of mouth and throat and danger of perforation of esophagus and stomach if swallowed.

**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 has not been tested.

| CAS No  | Chemical name            |      |           |         |               |               |
|---------|--------------------------|------|-----------|---------|---------------|---------------|
|         | Aquatic toxicity         | Dose | [h]   [d] | Species | Source        | Method        |
| 64-19-7 | acetic acid 96 %         |      |           |         |               |               |
|         | Acute crustacea toxicity | EC50 | 65 mg/l   | 48 h    | Daphnia magna | Janssen et al |

**12.2. Persistence and degradability**

Readily biodegradable.

**12.3. Bioaccumulative potential**

The product has not been tested.

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**Partition coefficient n-octanol/water**

| CAS No  | Chemical name    | Log Pow |
|---------|------------------|---------|
| 64-19-7 | acetic acid 96 % | -0,17   |

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

The product has not been tested.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

The product has not been tested.

**12.7. Other adverse effects**

No information available.

**Further information**

Avoid release to the environment. none

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

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.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number or ID number:**

UN 2789

**14.2. UN proper shipping name:**

ACETIC ACID, GLACIAL

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8+3



Classification code:

CF1

Limited quantity:

1 L

Excepted quantity:

E2

Transport category:

2

Hazard No:

83

Tunnel restriction code:

D/E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:**

UN 2789

**14.2. UN proper shipping name:**

Acetic acid, glacial

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8+3



Classification code:

CF1



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Limited quantity: 1 L  
Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 2789  
**14.2. UN proper shipping name:** ACETIC ACID, GLACIAL  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8+3



Special Provisions: -  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-C

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 2789  
**14.2. UN proper shipping name:** ACETIC ACID, GLACIAL  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8+3



Limited quantity Passenger: 0.5 L  
Passenger LQ: Y840  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 851  
IATA-max. quantity - Passenger: 1 L  
IATA-packing instructions - Cargo: 855  
IATA-max. quantity - Cargo: 30 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Combustible liquid. strongly corrosive.

**14.7. Maritime transport in bulk according to IMO instruments**

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, Entry 40

Directive 2010/75/EU on industrial emissions: 100 % (1050 g/l)

Directive 2004/42/EC on VOC in paints and varnishes: 100 % (1050 g/l)

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

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**Additional information**

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

**Abbreviations and acronyms**

Flam. Liq: Flammable liquids

Skin Corr: Skin corrosion

Eye Dam: Eye damage

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%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H and EUH statements (number and full text)**

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|      |  |
|------|--|
| H226 | Flammable liquid and vapour.             |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.