

| TISAB solution pH 5.0 - 5.5 Buffer solution for adjusting the total ion strength composition accord | | | | | | | |
|--|---|------------------------------|--------------|--|--|--|--|
| Revision date: 17.01.2024 | Product code: 26586 | | Page 1 of 10 | | | | |
| SECTION 1: Identification of the | substance/mixture and of the compa | ny/undertaking | | | | | |
| | uffer solution for adjusting the total ion strer | o | | | | | |
| Use of the substance/mixture | substance or mixture and uses advised a | gainst | | | | | |
| Laboratory chemical Industrial uses: Uses of subst | | | | | | | |
| Uses advised against | | | | | | | |
| Do not use for private purpos | es (household). | | | | | | |
| 1.3. Details of the supplier of the sa | | | | | | | |
| Company name: | AnalytiChem GmbH ACD | | | | | | |
| Street: | Stempelstraße 6 | | | | | | |
| Place: | D-47167 Duisburg | | | | | | |
| Telephone: | 0203/5194-0 | Telefax:0203/5194-290 | | | | | |
| E-mail: Contact person: E-mail: Internet: Responsible Department: | info@analytichem.de Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit | Telephone: 0203/5194-107/117 | | | | | |
| 1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, number: Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted) | | | | | | | |
| Further Information | | | | | | | |

This product is a mixture. REACH Registration Number see section 3.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution



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Relevant ingredients

| CAS No | Chemical name | Chemical name | | | | | |
|---------|---|-------------------------|--|--|--|--|--|
| | EC No | EC No Index No REACH No | | | | | |
| | Classification (Regulation (EC) No 1272/2008) | | | | | | |
| 64-19-7 | acetic acid | acetic acid | | | | | |
| | 200-580-7 607-002-00-6 01-2119475328-30 | | | | | | |
| | 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 5 - < 10 %</td> inhalation: LC50 = 11,4 mg/l (vapours); oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90</td> Skin Irrit. 2; H315: >= 10 - < 25</td> Eye Irrit. 2; H319: >= 10 - < 25</td>

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

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

No data available

4.3. Indication of any immediate medical attention and special treatment needed No data available

No data avallable

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products



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5.3. Advice for firefighters

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

Additional information

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

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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

Do not breathe vapour/aerosol.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

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 or drink.

Further information on handling

Take off contaminated clothing. Wash hands before breaks and after work.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a dry place.

Hints on joint storage

No data available

Further information on storage conditions

Store in a dry place.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m³ | fib/cm³ | Category | Origin |
|---------|-------------|-----|-------|---------|---------------|--------|
| 64-19-7 | Acetic acid | 10 | 25 | | TWA (8 h) | |
| | | 20 | 50 | | STEL (15 min) | |

DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|-------------|----------------|--------|----------|
| DNEL type | | Exposure route | Effect | Value |
| 64-19-7 | acetic acid | | | |
| Worker DNEL, | long-term | inhalation | local | 25 mg/m³ |
| Worker DNEL, acute | | inhalation | local | 25 mg/m³ |
| Consumer DNEL, long-term | | inhalation | local | 25 mg/m³ |
| Consumer DNE | EL, acute | inhalation | local | 25 mg/m³ |

PNEC values

| CAS No | Substance | |
|--|-------------|-------------|
| Environmental compartment | | Value |
| 64-19-7 | acetic acid | |
| Freshwater | | 3,058 mg/l |
| Freshwater (intermittent releases) | | 30,58 mg/l |
| Marine water | | 0,306 mg/l |
| Freshwater sediment | | 11,36 mg/kg |
| Marine sediment | | 1,136 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 85 mg/l |
| Soil | | 0,47 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment



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Eye/face protection

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Suitable eye protection: goggles.

Hand protection

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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state: Colour: Odour: | Liquid colourless characteristic | |
|--|--|----------------|
| Melting point/freezing point: | Characteristic | not determined |
| Boiling point or initial boiling point and | | not determined |
| boiling range: Flammability: | | not determined |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | Х |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value: | | 5,0 - 5,5 |
| Viscosity / kinematic: | | not determined |



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| Water solubility: not determined | |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: not determined | |
| Vapour pressure: not determined | |
| Vapour pressure: not determined | |
| Density: not determined | |
| Bulk density: not determined | |
| Relative vapour density: not determined | |
| 9.2. Other information | |
| Information with regard to physical hazard classes | |
| Explosive properties | |
| not applicable | |
| Sustaining combustion: No data available | |
| Self-ignition temperature | |
| Solid: not determined | |
| Gas: not applicable | |
| Oxidizing properties | |
| Not oxidising. | |
| Other safety characteristics | |
| Evaporation rate: not determined | |
| Solvent separation test: not determined | |
| Solvent content: not determined | |
| Solid content: not determined | |
| Sublimation point: not determined | |
| Softening point: not determined | |
| Pour point: not determined | |
| not determined: | |
| Viscosity / dynamic: not determined | |
| Flow time: not determined | |
| Further Information | |
| not determined | |
| SECTION 10: Stability and reactivity | |

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid No data available

No dala avallable

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Further information

No data available



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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No Chemical name

| 0,10,110 | | | | | | |
|----------|-------------------------|---------------|-----------|---------|---------------------|--|
| | Exposure route | Dose | | Species | Source | Method |
| 64-19-7 | acetic acid | | | - | | |
| | oral | LD50 mg/kg | 3310 | | - ,5 , | The sodium salt of acetic acid was admin |
| | inhalation (4 h) vapour | LC50 | 11,4 mg/l | Rat | Study report (1980) | OECD Guideline 403 |

Irritation and corrosivity

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

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

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

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

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

There are no data available on the mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

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



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| CAS No | Chemical name | Chemical name | | | | | |
|---------|--------------------------|---------------|--------|-----------|-------------------------|------------------------|-----------------------|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method |
| 64-19-7 | acetic acid | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 1000 | 96 h | Oncorhynchus mykiss | Study report (2005) | other: SOP E257 |
| | Acute algae toxicity | ErC50 mg/l | > 1000 | | Skeletonema costatum | Study report (2005) | ISO 10253 |
| | Acute crustacea toxicity | EC50 mg/l | > 1000 | 48 h | Daphnia magna | Study report (1990) | OECD Guideline 202 |

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

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

BCF

| CAS No | Chemical name | BCF | Species | Source |
|---------|---------------|------|---------|----------------------|
| 64-19-7 | acetic acid | 3,16 | fish | Environ. Toxicol. Ch |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not empty into drains.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

| 14.1. UN number or ID number: | No dangerous good in sense of this transport regulation. |
|-----------------------------------|--|
| 14.2. UN proper shipping name: | No dangerous good in sense of this transport regulation. |
| 14.3. Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4. Packing group: | No dangerous good in sense of this transport regulation. |



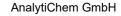
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Changes

This data sheet contains changes from the previous version in section(s): 12.

Abbreviations and acronyms

Flam. Liq: Flammable liquid Skin Corr: Skin corrosion 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%





Revision date: 17.01.2024

according to Regulation (EC) No 1907/2006

TISAB solution pH 5.0 - 5.5 Buffer solution for adjusting the total ion strength composition

Product code: 26586

accord

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Relevant H and EUH statements (number and full text)

| H226 | Flammable liquid and vapour. |
|--------|--|
| H314 | Causes severe skin burns and eye damage. |
| EUH210 | Safety data sheet available on request. |

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