

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 1 of 13

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

#### 1.1. Product identifier

HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

UFI: Q7C2-Y394-Q00A-UTHP

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

##### **Use of the substance/mixture**

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

##### **Uses advised against**

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

|                         |                                  |
|-------------------------|----------------------------------|
| Company name:           | AnalytiChem GmbH                 |
|                         | ACD                              |
| Street:                 | Stempelstraße 6                  |
| Place:                  | D-47167 Duisburg                 |
| Telephone:              | 0203/5194-0                      |
| E-mail:                 | info@analytichem.de              |
| Contact person:         | Abteilung Produktsicherheit      |
| E-mail:                 | produktsicherheit@analytichem.de |
| Internet:               | www.analytichem.de               |
| Responsible Department: | Abteilung Produktsicherheit      |

Telefax: 0203/5194-290

Telephone: 0203/5194-107/117

#### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTRAC 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**

Flam. Liq. 2; H225

Acute Tox. 4; H302

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### **Regulation (EC) No 1272/2008**

##### **Hazard components for labelling**

acetonitrile

**Signal word:** Danger

**Pictograms:**



**HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid**

Revision: 19.09.2025

Product code: 34433

Page 2 of 13

**Hazard statements**

H225                    Highly flammable liquid and vapour.  
 H302                    Harmful if swallowed.  
 H319                    Causes serious eye irritation.

**Precautionary statements**

P210                    Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233                    Keep container tightly closed.  
 P280                    Wear protective gloves/protective clothing and eye protection/face protection.  
 P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313             If eye irritation persists: Get medical advice/attention.  
 P403+P235             Store in a well-ventilated place. Keep cool.  
 P501                    Dispose of contents/container to hazardous or special waste collection point.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Relevant ingredients**

| CAS No  | Chemical name  |              |                  | Quantity    |
|---|--|--------------|------------------|-------------|
|   | EC No  | Index No     | REACH No         |             |
| Classification (Regulation (EC) No 1272/2008) |  |              |                  |             |
| 75-05-8                                       | acetonitrile   |              |                  | 25 - < 30 % |
|   | 200-835-2  | 608-001-00-3 | 01-2119471307-38 |             |
|   | Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H225 H332 H312 H302 H319 |              |                  |             |

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   |           |               |             |
| 75-05-8  | 200-835-2 | acetonitrile  | 25 - < 30 % |
| inhalation: LC50 = 3587 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 469 mg/kg |           |               |             |

**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. Call a physician immediately.  
 If breathing is irregular or stopped, administer artificial respiration.

**After contact with skin**

Wash immediately with: Water  
 Take off immediately all contaminated clothing and wash it before reuse.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 3 of 13

Call a physician immediately.

#### 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. Call a physician immediately.

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

Headache

Dyspnoea

Irritant

Vomiting

Spasms

Unconsciousness

Respiratory complaints

Cardiac arrhythmias

Dizziness

Release of: Hydrogen cyanide (hydrocyanic acid)

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

##### Unsuitable extinguishing media

no restriction

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

Combustible liquid.

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Hydrogen cyanide (hydrocyanic acid)

Beware of reignition.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

#### Additional information

Danger of bursting container.

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

Suppress gases/vapours/mists with water spray jet.

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 4 of 13

lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

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.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

### 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

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe vapour/aerosol. Provide adequate ventilation.

#### 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 or drink.

#### Further information on handling

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 5 of 13

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

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed. 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

national regulations

##### Further information on storage conditions

Keep cool. Protect from sunlight.

#### 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/m <sup>3</sup> | fib/cm <sup>3</sup> | Category  | Origin |
|---------|--------------|-----|-------------------|---------------------|-----------|--------|
| 75-05-8 | Acetonitrile | 40  | 70                |                     | TWA (8 h) |        |

##### DNEL/DMEL values

| CAS No  | Substance                | Exposure route | Effect   | Value                 |
|---------|--------------------------|----------------|----------|-----------------------|
| 75-05-8 | acetonitrile             |                |          |                       |
|         | Worker DNEL, long-term   | inhalation     | systemic | 68 mg/m <sup>3</sup>  |
|         | Worker DNEL, acute       | inhalation     | systemic | 68 mg/m <sup>3</sup>  |
|         | Worker DNEL, long-term   | inhalation     | local    | 68 mg/m <sup>3</sup>  |
|         | Worker DNEL, acute       | inhalation     | local    | 68 mg/m <sup>3</sup>  |
|         | Worker DNEL, long-term   | dermal         | systemic | 32,2 mg/kg bw/day     |
|         | Consumer DNEL, long-term | inhalation     | systemic | 4,8 mg/m <sup>3</sup> |
|         | Consumer DNEL, acute     | inhalation     | systemic | 220 mg/m <sup>3</sup> |
|         | Consumer DNEL, long-term | inhalation     | local    | 4,8 mg/m <sup>3</sup> |
|         | Consumer DNEL, acute     | inhalation     | local    | 22 mg/m <sup>3</sup>  |
|         | Consumer DNEL, acute     | oral           | systemic | 0,6 mg/kg bw/day      |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 6 of 13

#### PNEC values

| CAS No   | Substance    |            |
|--|--------------|------------|
| Environmental compartment                        |              | Value      |
| 75-05-8  | acetonitrile |            |
| Freshwater                                       |              | 10 mg/l    |
| Freshwater (intermittent releases)               |              | 10 mg/l    |
| Marine water                                     |              | 1 mg/l     |
| Freshwater sediment                              |              | 7,53 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |              | 32 mg/l    |
| Soil   |              | 2,41 mg/kg |

#### 8.2. Exposure controls

##### Appropriate engineering controls

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

###### Eye/face protection

Suitable eye protection: goggles.

###### Hand protection

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 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 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](http://www.kcl.de)).

###### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

###### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

###### Thermal hazards

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 7 of 13

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Danger of explosion

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                   |
|--|-------------------|
| Physical state:  | Liquid            |
| Colour:  | colourless        |
| Odour:   | like: Ether       |
| Odour threshold:   | No data available |
| Melting point/freezing point:                                | No data available |
| Boiling point or initial boiling point and<br>boiling range: | >35 °C            |
| Flammability:  | not applicable    |
| Lower explosion limits:                                      | No data available |
| Upper explosion limits:                                      | No data available |
| Flash point:   | <23 °C            |
| Auto-ignition temperature:                                   | No data available |
| Decomposition temperature:                                   | not determined    |
| Viscosity / kinematic:                                       | No data available |
| Solubility in other solvents                                 |                   |
| not determined   |                   |
| Dissolution rate:  | No data available |
| Partition coefficient n-octanol/water:                       | not determined    |
| Dispersion stability:  | No data available |
| Vapour pressure:   | No data available |
| Vapour pressure:   | No data available |
| Relative density:  | No data available |
| Bulk density:  | No data available |
| Relative vapour density:                                     | not determined    |
| Particle characteristics:                                    | No data available |

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

Vapours may form explosive mixtures with air.

##### Sustained combustibility:

No data available

##### Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

##### Oxidizing properties

Not oxidising.

#### Other safety characteristics

##### Evaporation rate:

not determined

##### Solvent separation test:

No data available

##### Solvent content:

28%

##### Solid content:

No data available

##### Sublimation point:

No data available

##### Softening point:

No data available

##### Pour point:

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 8 of 13

No data available:

Viscosity / dynamic:

No data available

Flow time:

No data available

#### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapours may form explosive mixtures with air.

### 10.2. Chemical stability

Keep away from heat.

### 10.3. Possibility of hazardous reactions

(Acetonitrile) Violent reactions possible with: Strong bases, strong reducing agents. Explosion hazard with:

Nitrates, perchlorates, concentrated perchloric acid, concentrated sulfuric acid, with heat. Fire hazard or formation of flammable gases or vapors with: Oxidizing agents, nitric acid, nitrogen dioxide, with catalyst.

Development of dangerous gases or vapors with: Acids.

### 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.

### 10.5. Incompatible materials

Rubber articles

Plastic articles

### 10.6. Hazardous decomposition products

SECTION 5: Firefighting measures

#### Further information

No data available

## SECTION 11: Toxicological information

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

#### Toxicokinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

Harmful if swallowed.

#### ATEmix calculated

ATE (oral) 1674 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No  | Chemical name           |               |          |        |                     |                    |
|---------|-------------------------|---------------|----------|--------|---------------------|--------------------|
|         | Exposure route          | Dose          | Species  | Source | Method              |                    |
| 75-05-8 | acetonitrile            |               |          |        |                     |                    |
|         | oral                    | LD50<br>mg/kg | 469      | Mouse  | Study report (1998) | OECD Guideline 401 |
|         | dermal                  | LD50<br>mg/kg | > 2000   | Rabbit | Study report (1997) | OECD Guideline 402 |
|         | inhalation (4 h) vapour | LC50<br>mg/l  | 3587     | Mouse  | Study report (1998) | OECD Guideline 403 |
|         | inhalation dust/mist    | ATE           | 1,5 mg/l |        |                     |                    |

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 9 of 13

#### Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: 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

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.

#### 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.

#### Information on likely routes of exposure

There are no data available on the mixture itself.

#### 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

#### Endocrine disrupting properties

There are no data available on the mixture itself.

#### Other information

There are no data available on the mixture itself.

#### Further information

Headache

Dyspnoea

Irritant

Vomiting

Spasms

Unconsciousness

Respiratory complaints

Cardiac arrhythmias

Dizziness

Release of: Hydrogen cyanide (hydrocyanic acid)

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

according to Regulation (EC) No 1907/2006

**HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid**

Revision: 19.09.2025

Product code: 34433

Page 10 of 13

| CAS No  | Chemical name            |                 |           |                           |  |  |
|---------|--------------------------|-----------------|-----------|---------------------------|--|--|
|         | Aquatic toxicity         | Dose            | [h]   [d] | Species                   | Source                                   | Method                                   |
| 75-05-8 | acetonitrile             |                 |           |                           |  |  |
|         | Acute fish toxicity      | LC50 1640 mg/l  | 96 h      | Pimephales promelas       | Review article or handbook (1984)        | Guideline not specified                  |
|         | Acute algae toxicity     | ErC50 3560 mg/l | 72 h      | Phaeodactylum tricornutum | Study report (2010)                      | ISO 10253                                |
|         | Acute crustacea toxicity | EC50 3600 mg/l  | 48 h      | Daphnia magna             | Bull. Environ. Contam. Toxicol. 57:655-6 | other: OECD Guidelines for Testing Chemi |
|         | Fish toxicity            | NOEC 102 mg/l   | 7 d       | Oryzias latipes           | Study report (1996)                      | OECD Guideline 204                       |
|         | Crustacea toxicity       | NOEC 960 mg/l   | 21 d      | Daphnia magna             | Study report (1996)                      | other: 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 |
|---------|---------------|---------|
| 75-05-8 | acetonitrile  | 0,29    |

**BCF**

| CAS No  | Chemical name | BCF | Species | Source      |
|---------|---------------|-----|---------|-------------|
| 75-05-8 | acetonitrile  | 3   |         | HSDB (2009) |

**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**

There are no data available on the mixture itself.

**Further information**

Do not empty into drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 11 of 13

## SECTION 14: Transport information

### Land transport (ADR/RID)

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | II           |
| Hazard label:                            | 3            |
| Classification code:                     | F1           |
| Limited quantity:                        | 1 L          |
| Excepted quantity:                       | E2           |
| Transport category:                      | 2            |
| Hazard No:                               | 33           |
| Tunnel restriction code:                 | D/E          |

### Inland waterways transport (ADN)

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | II           |
| Hazard label:                            | 3            |
| Classification code:                     | F1           |
| Limited quantity:                        | 1 L          |
| Excepted quantity:                       | E2           |

### Marine transport (IMDG)

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | II           |
| Hazard label:                            | 3            |
| Special Provisions:                      | -            |
| Limited quantity:                        | 1 L          |
| Excepted quantity:                       | E2           |
| EmS:                                     | F-E, S-D     |

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

|  |              |
|--|--------------|
| <b>14.1. UN number or ID number:</b>     | UN 1648      |
| <b>14.2. UN proper shipping name:</b>    | ACETONITRILE |
| <b>14.3. Transport hazard class(es):</b> | 3            |
| <b>14.4. Packing group:</b>              | II           |
| Hazard label:                            | 3            |
| Limited quantity Passenger:              | 1 L          |
| Passenger LQ:                            | Y341         |
| Excepted quantity:                       | E2           |
| IATA-packing instructions - Passenger:   | 353          |
| IATA-max. quantity - Passenger:          | 5 L          |
| IATA-packing instructions - Cargo:       | 364          |
| IATA-max. quantity - Cargo:              | 60 L         |

### 14.5. Environmental hazards

|                            |    |
|----------------------------|----|
| ENVIRONMENTALLY HAZARDOUS: | No |
|----------------------------|----|

### 14.6. Special precautions for user

Warning: Combustible liquid.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 12 of 13

#### 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, Entry 75

Information according to Directive

P5c FLAMMABLE LIQUIDS

2012/18/EU (SEVESO III):

#### 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):

2 - obviously hazardous to water

Skin resorption/Sensitization:

Permeates easily through outer skin and causes poisoning.

## SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1.

#### Abbreviations and acronyms

Flam. Liq. 2: Flammable liquids, hazard category 2

Acute Tox. 4: Acute toxicity, hazard category 4

Eye Irrit. 2: Eye irritation, hazard category 2

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]

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data    |
| Acute Tox. 4; H302 | Calculation method       |
| Eye Irrit. 2; H319 | Calculation method       |

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

H225                    Highly flammable liquid and vapour.  
H302                    Harmful if swallowed.  
H312                    Harmful in contact with skin.  
H319                    Causes serious eye irritation.  
H332                    Harmful if inhaled.

#### 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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### HPLC mobile phase Acetonitrile-water mixture with the addition of acetic acid

Revision: 19.09.2025

Product code: 34433

Page 13 of 13

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.

Provide appropriate information, instructions and training to users

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