

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 1 of 14

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

1.1. Product identifier

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

UFI: PS00-S3R3-600N-JPQ7

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

Use of the substance/mixture

Laboratory chemical

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

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 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone
 number:
 For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,
 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

Flam. Liq. 2; H225 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

acetonitrile

trifluoroacetic acid 4,1 %

Signal word: Danger



according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 2 of 14

Pictograms:







Hazard statements

H225 Highly flammable liquid and vapour. H302+H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves 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.

P310 Immediately call a POISON CENTER/doctor. P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

| CAS No | Chemical name | | | | | | |
|---------|--|--------------|------------------|--|--|--|--|
| | EC No | Index No | REACH No | | | | |
| | Classification (Regulation (EC) No 1272/2008) | | | | | | |
| 75-05-8 | acetonitrile | | | | | | |
| | 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 | | | | | | |
| 76-05-1 | trifluoroacetic acid | | | | | | |
| | 200-929-3 | 607-091-00-1 | 01-2119548396-29 | | | | |
| | Acute Tox. 4, Skin Corr. 1A, Aquatic Chronic 3; H332 H314 H412 | | | | | | |

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

Specific Conc. Limits, M-factors and ATE

| <u> </u> | positio estici Elitito, ili taccoro alta 711 | | | | | | |
|----------|--|--|-------------|--|--|--|--|
| CAS No | EC No | Chemical name | Quantity | | | | |
| | Specific Conc. | Limits, M-factors and ATE | | | | | |
| 75-05-8 | 200-835-2 | acetonitrile | 40 - < 45 % | | | | |
| | | 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 | | | | | |
| 76-05-1 | 200-929-3 | trifluoroacetic acid | 1 - < 5 % | | | | |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists) | | | | | | |

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 3 of 14

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

After contact with skin

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

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

Release of: Hydrogen cyanide (hydrocyanic acid)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

no restriction

$\underline{\textbf{5.2. Special hazards arising from the substance or mixture}}$

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 (CO2), Carbon monoxide

Hydrogen cyanide (hydrocyanic acid)

Nitrogen oxides (NOx)

Hydrogen fluoride

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.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 4 of 14

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 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.



according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 5 of 14

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

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/m³ | fib/cm³ | Category | Origin |
|---------|--------------|-----|-------|---------|-----------|--------|
| 75-05-8 | Acetonitrile | 40 | 70 | | TWA (8 h) | |



according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 6 of 14

DNEL/DMEL values

| CAS No | Substance | | | | | |
|--------------------------|------------------------|----------------|----------|-----------------------|--|--|
| DNEL type | | Exposure route | Effect | Value | | |
| 75-05-8 | acetonitrile | | | | | |
| Worker DNEL, | long-term | inhalation | systemic | 68 mg/m³ | | |
| Worker DNEL, | acute | inhalation | systemic | 68 mg/m³ | | |
| Worker DNEL, | long-term | inhalation | local | 68 mg/m³ | | |
| Worker DNEL, | acute | inhalation | local | 68 mg/m³ | | |
| Worker DNEL, | Worker DNEL, long-term | | systemic | 32,2 mg/kg bw/day | | |
| Consumer DNEL, long-term | | inhalation | systemic | 4,8 mg/m³ | | |
| Consumer DNEL, acute | | inhalation | systemic | 220 mg/m³ | | |
| Consumer DN | EL, long-term | inhalation | local | 4,8 mg/m³ | | |
| Consumer DN | EL, acute | inhalation | local | 22 mg/m³ | | |
| Consumer DN | EL, acute | oral | systemic | 0,6 mg/kg bw/day | | |
| 76-05-1 | trifluoroacetic acid | | | | | |
| Worker DNEL, long-term | | inhalation | local | 2,67 mg/m³ | | |
| Worker DNEL, acute | | inhalation | local | 16 mg/m³ | | |
| Consumer DNEL, long-term | | oral | systemic | 0,042 mg/kg bw/day | | |

PNEC values

| CAS No | Substance | | | | |
|---------------------|--|--------------|--|--|--|
| Environmen | Environmental compartment | | | | |
| 75-05-8 | acetonitrile | | | | |
| Freshwater | | 10 mg/l | | | |
| Freshwater | intermittent releases) | 10 mg/l | | | |
| Marine wate | | 1 mg/l | | | |
| Freshwater | sediment | 7,53 mg/kg | | | |
| Micro-organ | Micro-organisms in sewage treatment plants (STP) | | | | |
| Soil | Soil | | | | |
| 76-05-1 | trifluoroacetic acid | | | | |
| Freshwater | | 0,56 mg/l | | | |
| Freshwater | Freshwater (intermittent releases) | | | | |
| Marine wate | Marine water | | | | |
| Freshwater sediment | | 2,36 mg/kg | | | |
| Marine sediment | | 0,236 mg/kg | | | |
| Micro-organ | Micro-organisms in sewage treatment plants (STP) | | | | |
| Soil 0,00 | | 0,0047 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.



according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 7 of 14

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).

Skin protection

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

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepeneur 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.

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:

Colour:

Odour:

Odour threshold:

Liquid

colourless

like: Ether

No data available

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

Flammability:

Lower explosion limits:

Upper explosion limits:

No data available

Flash point:

Auto-ignition temperature:

Decomposition temperature:

No data available

No data available

No data available

No data available

PH-Value:



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 8 of 14

Viscosity / kinematic:

Water solubility:

No data available
Soluble in: Water

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

Vapour pressure:

No data available

No data available

No data available

O,9219 g/cm³

Bulk density:

No data available

Relative vapour density:

No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

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

Sustaining combustion:

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate:

Solvent separation test:

No data available
Solvent content:

No data available
Solid content:

No data available
Sublimation point:

No data available
Softening point:

No data available
Pour point:

No data available

No data available:

Viscosity / dynamic:

Flow time:

No data available

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

Violent reaction with: Base, Reducing agent, strong

Danger of explosion: sulphuric acid, NO3, Perchlorate, Perchloracid Ignition hazard: Oxidising agent, Nitric acid, Nitrogen dioxide

Possibility of hazardous reactions: Acid

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



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 9 of 14

Plastic articles metals

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Harmful if swallowed.

Harmful if inhaled.

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

| CAS No | Chemical name | | | | | | |
|---------|-------------------------|---------------|-----------|---------|---------------------|--------------------|--|
| | Exposure route | Dose | | Species | Source | Method | |
| 75-05-8 | acetonitrile | | | | | | |
| | oral | LD50 mg/kg | 469 | Mouse | Study report (1998) | OECD Guideline 401 | |
| | dermal | LD50 mg/kg | > 2000 | Rabbit | Study report (1997) | OECD Guideline 402 | |
| | inhalation (4 h) vapour | LC50 | 3587 mg/l | Mouse | Study report (1998) | OECD Guideline 403 | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | | | |
| 76-05-1 | trifluoroacetic acid | | | | | | |
| | inhalation vapour | ATE | 11 mg/l | | | | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | | | |

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

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

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.

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.



according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 10 of 14

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

Headache

Dyspnoea

Irritant

Vomiting

Spasms

Unconsciousness

Respiratory complaints

Cardiac arrhythmias

Dizziness

Release of: Hydrogen cyanide (hydrocyanic acid)

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

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

| CAS No | Chemical name | | | | | | | |
|---------|--------------------------|------------------|----------|-----------|------------------------------------|--|--|--|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method | |
| 75-05-8 | acetonitrile | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | 1640 | 96 h | Pimephales promelas | Review article or handbook (1984) | Guideline not specified | |
| | Acute algae toxicity | ErC50 mg/l | 3560 | 72 h | Phaeodactylum tricornutum | Study report (2010) | ISO 10253 | |
| | Acute crustacea toxicity | EC50 mg/l | 3600 | 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 | |
| 76-05-1 | trifluoroacetic acid | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 1200 | 96 h | Danio rerio | Study report (1992) | OECD Guideline 203 | |
| | Acute algae toxicity | ErC50 mg/l | 237,07 | 72 h | Pseudokirchneriella subcapitata | Study report (2017) | OECD Guideline 201 | |
| | Acute crustacea toxicity | EC50 mg/l | > 1200 | 48 h | Daphnia magna | Study report (1992) | OECD Guideline 202 | |
| | Crustacea toxicity | NOEC mg/l | >= 100 | 21 d | Daphnia magna | Study report (2010) | OECD Guideline 211 | |
| | Acute bacteria toxicity | EC50 mg/l () | > 1000 | 3 h | activated sludge, domestic | Study report (2010) | OECD Guideline 209 | |

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.



according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 11 of 14

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|----------------------|---------|
| 75-05-8 | acetonitrile | 0,29 |
| 76-05-1 | trifluoroacetic acid | 0,5 |

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

Discharge into the environment must be avoided.

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.

Do not mix with other wastes.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. 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: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetonitrile, trifluoroacetic

acid)

3 14.3. Transport hazard class(es): 14.4. Packing group: Ш 3+8 Hazard label: Classification code: FC **Special Provisions:** 274 Limited quantity: 1 L Excepted quantity: E2 Transport category: 2 Hazard No: 338 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2924



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 12 of 14

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetonitrile, trifluoroacetic

acid)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Classification code:FCSpecial Provisions:274Limited quantity:1 LExcepted quantity:E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetonitrile, trifluoroacetic

acid)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Special Provisions:274Limited quantity:1 LExcepted quantity:E2EmS:F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2924

14.2. UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (acetonitrile, trifluoroacetic

acid)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3+8Special Provisions:A3Limited quantity Passenger:0.5 LPassenger LQ:Y340Excepted quantity:E2

IATA-packing instructions - Passenger:352IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:363IATA-max. quantity - Cargo:5 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquid.

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



according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 13 of 14

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): 9,12.

Abbreviations and acronyms

Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation

Aquatic Chronic: Chronic aquatic hazard

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 | | | | |
| Acute Tox. 4; H332 | Calculation method | | | | |
| Skin Irrit. 2; H315 | Calculation method | | | | |
| Eye Dam. 1; H318 | Calculation method | | | | |

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H302+H332 Harmful if swallowed or if inhaled.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

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.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Acetonitril/Wasser/Trifluoressigsäure-Gemisch volumetrisch 50: 47,5: 2,5 gemischt für die

....

Revision date: 19.12.2024 Product code: 33589 Page 14 of 14

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.)