

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Acetonitrile / water mixture HPLC gradient grade mixed 79: 21 volumetrically

Revision date: 22.08.2023 Product code: 27274 Page 1 of 12

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

## 1.1. Product identifier

Acetonitrile / water mixture HPLC gradient grade mixed 79: 21 volumetrically

## 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 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 For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> 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; H312 Acute Tox. 4; H332 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:





## **Hazard statements**

H225 Highly flammable liquid and vapour.

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

H319 Causes serious eye irritation.



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### **Precautionary statements**

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

smoking.

P240 Ground and bond container and receiving equipment.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### 2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

### **Hazardous components**

CAS No	Chemical name			
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
75-05-8	acetonitrile			70 - < 75 %
	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	EC No Chemical name			
	Specific Conc. Limits, M-factors and ATE				
75-05-8	200-835-2	0-835-2 acetonitrile			
	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.

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.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.



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### 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 (CO2), 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 (CO2) 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 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** 

Do not breathe dust/fume/gas/mist/vapours/spray.



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#### 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

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.

storage temperature: +5°C - +30°C

### Further information on storage conditions

Keep cool. Protect from sunlight.



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## 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)	

#### **DNEL/DMEL values**

CAS No	Substance				
DNEL type		E	Exposure route	Effect	Value
75-05-8	acetonitrile				
Worker DNE	L, long-term	ir	nhalation	systemic	68 mg/m³
Worker DNE	L, acute	ir	nhalation	systemic	68 mg/m³
Worker DNE	L, long-term	ir	nhalation	local	68 mg/m³
Worker DNE	EL, acute	ir	nhalation	local	68 mg/m³
Worker DNE	EL, long-term	d	lermal	systemic	32,2 mg/kg bw/day
Consumer D	NEL, long-term	ir	nhalation	systemic	4,8 mg/m³
Consumer D	NEL, acute	ir	nhalation	systemic	220 mg/m³
Consumer D	NEL, long-term	ir	nhalation	local	4,8 mg/m³
Consumer D	NEL, acute	ir	nhalation	local	22 mg/m³
Consumer D	NEL, acute	0	oral	systemic	0,6 mg/kg bw/day

## **PNEC values**

CAS No	Substance			
Environmental	Environmental compartment			
75-05-8	75-05-8 acetonitrile			
Freshwater 10 m		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



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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

### **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

>35 °C

boiling range:

Flammability: not applicable Lower explosion limits: No data available No data available Upper explosion limits: Flash point: <21 °C Auto-ignition temperature: No data available Decomposition temperature: not determined pH-Value: not determined Viscosity / kinematic: No data available

Solubility in other solvents

not determined

Dissolution rate:

Partition coefficient n-octanol/water:

Dispersion stability:

Vapour pressure:

No data available



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Density: 0,82794 g/cm³
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.

Sustaining combustion: 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: 74,6% Solid content: No data available Sublimation point: No data available Softening point: No data available Pour point: No data available 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.

### 10.4. 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

### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.



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### **Acute toxicity**

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

#### **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							
	Exposure route	Dose		Species	Source	Method		
75-05-8	acetonitrile	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					

#### Irritation and corrosivity

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

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



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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.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
75-05-8	acetonitrile	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		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		

### 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**

There are no data available on the mixture itself.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

### **Disposal recommendations**

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



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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.

## **SECTION 14: Transport information**

14.1. UN number or ID number:	UN 1648
14.2. UN proper shipping name:	ACETONITRILE
14.3. Transport hazard class(es):	3

14.4. Packing group: П Hazard label: 3 Classification code: F1 Limited quantity: 1 I Excepted quantity: E2 Transport category: 2 Hazard No: 33 Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1648

14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1Limited quantity:1 LExcepted quantity:E2

# Marine transport (IMDG)

14.1. UN number or ID number: UN 1648

14.2. UN proper shipping name: ACETONITRILE

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

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

14.1. UN number or ID number: UN 1648

14.2. UN proper shipping name: ACETONITRILE

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Limited quantity Passenger:1 LPassenger LQ:Y341Excepted 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



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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 2012/18/EU

P5c FLAMMABLE LIQUIDS

(SEVESO III):

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

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

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% Flam. Liq: Flammable liquid Acute Tox: Acute toxicity Eye Irrit: Eye irritation

#### 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; H312	Calculation method
Acute Tox. 4; H332	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.

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



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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 transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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